Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

25X1

To: [redacted]

Thru

From

Date: SEPT. 15 1966

Test Number: BD 125

Subject: TEST ACTIVITIES THIS DATE

SEP 1966

This memo contains 7 pages.

Other enclosures: PRE-FLIGHT CHECK LIST

25X1

Special notations: [redacted] DROPPED FROM TEST DUE TO MALFUNCTION

Test Resume: NIKE LOCKED C.W 25½ MILES. S BAND & PPA RETURNS APPROX. 18 MILES. CPA 14 MILES.

Distribution:

Section "F" Log	(1)
SPOD Files	(1)
Other: Data Analysis	(1)
_____	( )
_____	( )
_____	( )
_____	( )
_____	( )

[redacted]

25X1

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TEST SERIES: 3D

25X1

VEHICLE TEST (✓)

DATE: SEPT 15, 1964

EXTERNAL CAL. ( )

[redacted]

R. G. & S. TEST #: BD 125

DATA TAPE #:(AMP) BD125-1A

DATA TAPE #:(DATA) BD125-1A

L.A.C. FLIGHT #: 153

AUDIO TAPE #: BD125-A

L.A.C. TEST #: _____

I. SEQUENCE OF TEST:

A. FLY VEHICLE #128 TO OBTAIN EWS DATA ON [redacted] SYSTEMS AND AR. DATA ON NAVY, MOD III & PPA SYSTEMS

25X1

25X1

II. VEHICLE INFORMATION:

A. ALTITUDE: 80 K

B. SPEED: MACH 3.2

C. I.N.S. (✓) OR MA-1 ( )

D. FLIGHT PLAN: ARTICLE TO FLY A PIG HOUSE PATT INBOUND 1 HR 13 MIN AFTER TAKE OFF FROM A BEARING OF 340° T

III. EXTERNAL CALIBRATION:

A. C-47: ( )

B. Helicopter: ( )

C. MISC: ( )

SYSTEMS:

BENDIX: ( ) MOD III: ( )

NAVY: ( ) PPA: ( )

OTHER: ( )

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DATE: Sept 76 C

TEST #: BD 125

IV. DRY RUN INFORMATION

A. NIKE PLUNGE CHECK:

NORMAL: 4148.75

PLUNGE: 0948.95

ERROR: 0.2 MILS

B. BENCH MARK CHECKS: (Nike, DSK, & MOD III)

DIFFERENTALS "OFF", DSK SLAVED: NIKE/EYE: AZ: 0 EL: 0

DSK ANT: AZ: 0 EL: 0

MOD III SLAVED: NIKE EYE: AZ: 0 EL: 0

MOD III AZ: 2 PT EL: 3/4 DN

C. TELEMETRY REFERENCE READINGS:

ROLL OCTAL: _____ INCLINOMETER #1 _____

PITCH OCTAL: _____ " " #2 _____

HEADING OCTAL: _____ " " #3 _____

MISC. OCTAL: _____ " " MISC: _____

TIME RECORDED:

DATA TAPES ON: _____ DATA TAPES OFF: _____

D. PRE-TEST ABNORMALITIES NOTED:

_____

_____

_____

_____

_____

_____

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TEST #: [illegible]

V. OPERATIONAL SYSTEMS STATISTICS:

25X1

A. [redacted] SYSTEM TIME NOTED: 1025:46

POWER OUT: [illegible] KW

FREQUENCY: 2.81 - 3.16 KMC

RECIEVER SENSITIVITY, MINUS 103 DBM

B. NAVY SYSTEM TIME NOTED: 1025:56

POWER OUT: 350 KW

FREQUENCY: 173 MC

RECIEVER SENSITIVITY, MINUS 115 DBM

C. MOD III SYSTEM TIME NOTED: 1027:44

POWER OUT: 115 KW

FREQUENCY: 5.4 KMC

RECIEVER SENSITIVITY, MINUS 91 DBM

D. PPA SYSTEM TIME NOTED: 1027:56

POWER OUT: 9.5 KW

FREQUENCY: 70 MC

RECIEVER SENSITIVITY, MINUS 100 DBM

E. OTHER SYSTEMS

NIKE SYSTEM (-)

RANGER SYSTEM (-)

TAPE CENTER (✓)

TELEMETRY ( )

MONOPULSE ( )

Q BAY SYSTEM ( )

BUIC GRAN SLOVER (✓)

MISC. [illegible]

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DATA CONTROLS
SYSTEMS STATUS

DATE: [illegible]

SHIFT: [illegible]

		OPERATIONAL	
I.	TAPE CENTER:		
	Ampex Recorder #I	Normal (X)	Abnormal ( )
	Ampex Recorder #II	Normal (X)	Abnormal ( )

Remarks: _____

	Datamec Recorder #I	Normal (X)	Abnormal ( )
	Datamec Recorder #II	Normal (X)	Abnormal ( )

Remarks: _____

II. R. F. SYSTEMS:

25X1	[redacted]	Normal (X)	Abnormal ( )
	Navy	Normal (X)	Abnormal ( )
	MOD III	Normal (X)	Abnormal ( )
	PPA	Normal ( )	Abnormal ( )
	Other: _____	Normal ( )	Abnormal ( )

Remarks: _____

III. DIGITAL [illegible]

	[illegible] Encoders	EL/AZ	Normal (X) Abnormal ( )
	Nike Encoders	EL/X	Normal (X) Abnormal ( )
	Telemetry (Ground)		Normal ( ) Abnormal ( )
	Telemetry (A-Bay)		Normal ( ) Abnormal ( )
	Radar		Normal (X) Abnormal ( )

Remarks: _____

IV. MISC. REMARKS AND [illegible]:

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RF INTERNAL CALIBRATIONS DATE: SEPT 15 1965

TEST # BD 125

ALL RANGES IN NAUTICAL MILES (✓) STATUTE MILES ( )

1013.27 # 1 RF Calibration RANGE: 110 MILES.

25X1 1015.40 Calib. Normal;) Navy (✓) PPA ( ) Mod III (✓)
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

1016.13 # 2 RF Calibration RANGE: 50 MILES.

1018.29 Calib. Normal;) Navy (✓) PPA ( ) Mod III (✓)
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

1018.50 # 3 RF Calibration RANGE: 30 MILES.

1021.13 Calib. Normal;) Navy (✓) PPA ( ) Mod III (✓)
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

1021.36 # 4 RF Calibration RANGE: 13 MILES.

1023.55 Calib. Normal;) Navy (✓) PPA ( ) Mod III (✓)
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

1101.36 # 5 RF Calibration RANGE: 30 MILES.

1103.33 Calib. Normal;) Navy ( ) PPA (✓) Mod III ( )
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

1103.47 # 6 RF Calibration RANGE: 13 MILES.

1105.50 Calib. Normal;) Navy ( ) PPA (✓) Mod III ( )
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations RANGE: _____ MILES.

_____ Calib. Normal;) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations RANGE: _____ MILES.

_____ Calib. Normal;) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations RANGE: _____ MILES.

_____ Calib. Normal;) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations RANGE: _____ MILES.

_____ Calib. Normal;) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal;) Navy ( ) PPA ( ) Mod III ( )

NOTE: CALS # 5 # 6 ARE PPA TEST CALS

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DATE SEPT 15 1966

TEST # BD-125

TEST INFORMATION ARTICLE 128 IS RALLING.

0929.46 LIFT-OFF

0932.12 NIKE AUTO TRACK 13 MILES

0932.49 RANGE 20 MILES

0935.08 RANGE 40 MILES

0936.55 BROKE TRACK

1049.26 Vehicle Airborne - acquired

1049.29 Nike in Auto Track RANGE 254 MILES

1049.48 T/M Tuned & Synced Data Tape On

1051.19 RANGE 200 MILES ; S BAND RETURNS

1051.36 S BAND OFF

1053.59 RANGE 150 MILES

1054.37 " 100 "

1054.58 " 90 "

1055.20 " 80 "

1055.38 " 70 "

1055.55 " 60 "

1056.16 " 50 "

1056.36 " 40 "

1056.58 " 30 "

1057.02 S BAND RETURNS

1057.03 PPA VIDEO

1057.21 RANGE 20 MILES

1057.52 " 14 " CPA, BROKE LOCK

1058.05 DATA TAPES OFF

1101.36 [illegible]

1105.50 CALS Complete

1105.54 [illegible]

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PREFLIGHT CHECK LIST

Date 7/

MISSION DATA

VEHICLE			COMMUNICATIONS/IFF			ROUTE							
A/C Number	Flight Number	Call Sign	Channel	Mode	Code	Name	Purpose	To Time	D.T.G.	Look Angle	Time	Alt.	Spd
126	153	D22	246	X43	44		ENS	930	250	390	TO 1113	80	5

25X1

Special Operations Of Pilot WILL CALL 200 NM DTG

TUNNEL 190 OVER CHASE BX-11

NO ASHCANS

SYSTEM DATA

CONFIGURATION											COMPUTER PRINTOUT	
BENDIX		NAVY		MOD III		PPA		I/M	NIKE			
Xmit	Rec	Xmit	Rec	Xmit	Rec	Xmit	Rec		Beac	Skin	Normal	Special
	✓	✓	✓	✓	✓	✓	✓	NA	✓		✓	

AUXILIARY EQUIPMENT

Quick-Fix ON

Voice Secy ON

I.R. NA

Others

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TEST REPORT BD-125

Copy 2 of 4

Date of Test:	15 Sep 66
Data Run:	16 Sep 66
Report Issued:	16 Sep 66
Aircraft:	128
Flight:	153

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

SUMMARY OF TESTS

Test No. BD-125

	NIKE	[redacted]	MOD III	NAVY	PPA
RANGE TRACK	✓				
AZIMUTH TRACK	✓				
ELEVATION TRACK	✓				
[redacted] - PHD		✓			
PHD			✓	✓	✓

25X1

25X1

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Test No. BD-125

- [x] Operating Log
- [x] Flight Plan (Azimuth Angle versus Ground Range)
- [ ] 25X1 [redacted] versus Time Plot
- [x] Azimuth and Elevation versus Time Plot
- [ ] Depression Angle and Look Angle versus Time Plot
- [ ] Roll Angle, Pitch Angle and Heading Angle versus Time Plot
- [x] 25X1 [redacted] PHD and Range versus Time Plot for the [redacted] 25X1 System (S-Band)
- [ ] 25X1 [redacted] PHD and Range versus Time Plot for the MOD III System (C-Band)
- [x] PHD and Range versus Time Plot for the Navy System
- [x] PHD and Range versus Time Plot for the PPA System
- [x] PHD Clutter and Range versus Time Plot for the Navy System
- [x] PHD Clutter and Range versus Time Plot for the PPA System
- [x] PHD and Range versus Time Plot for the MOD III System
- [ ]

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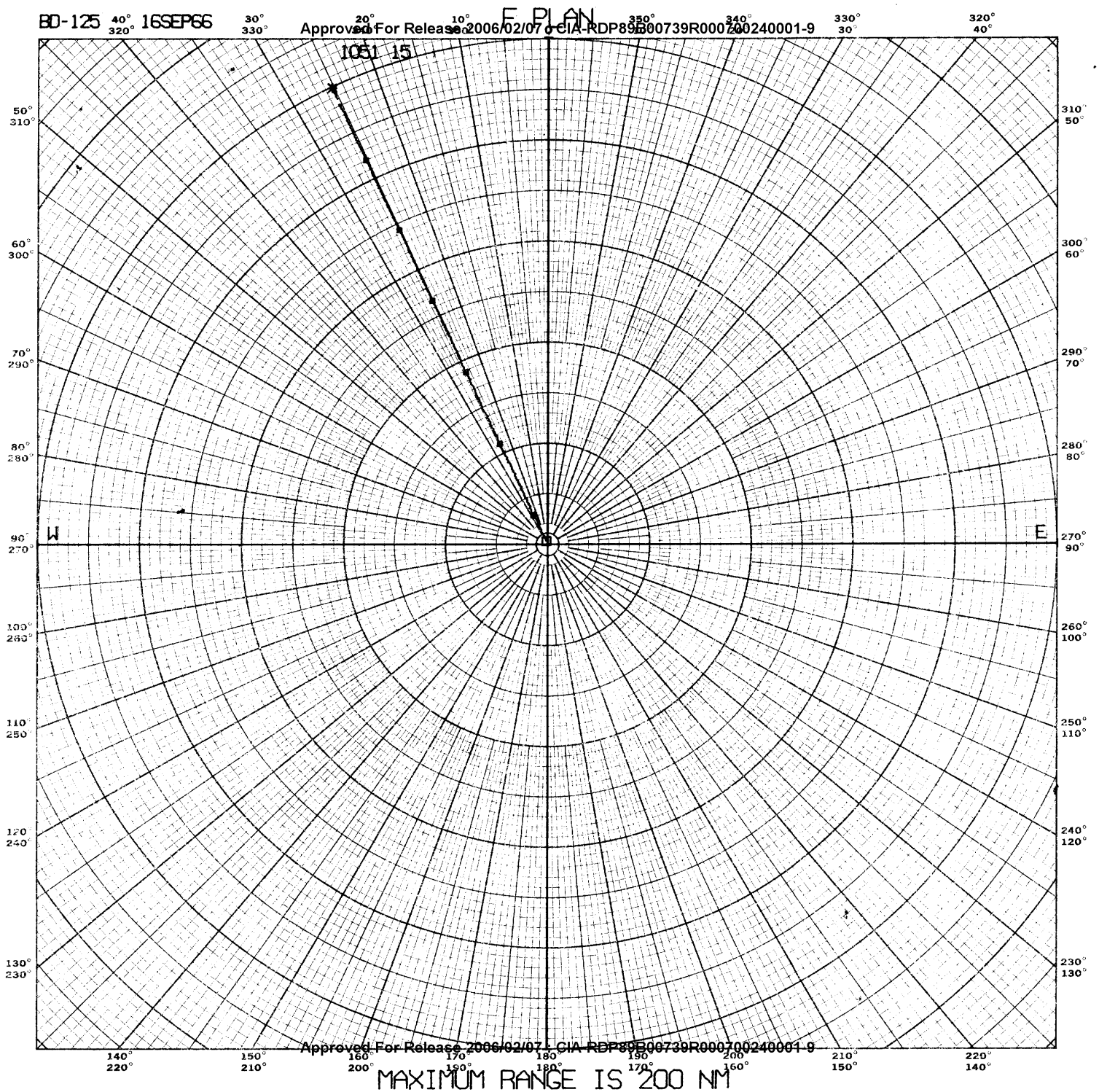

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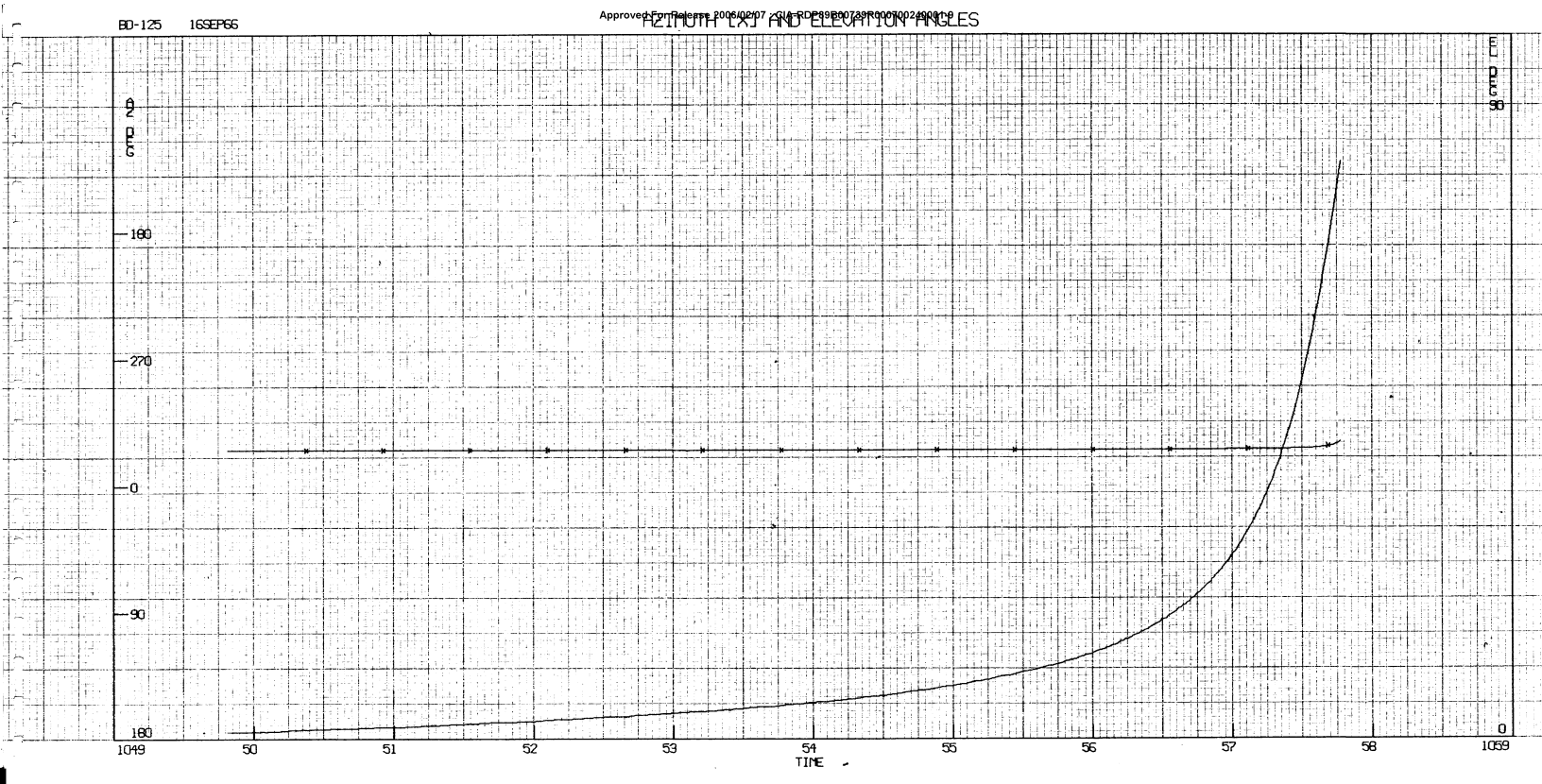

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25X1

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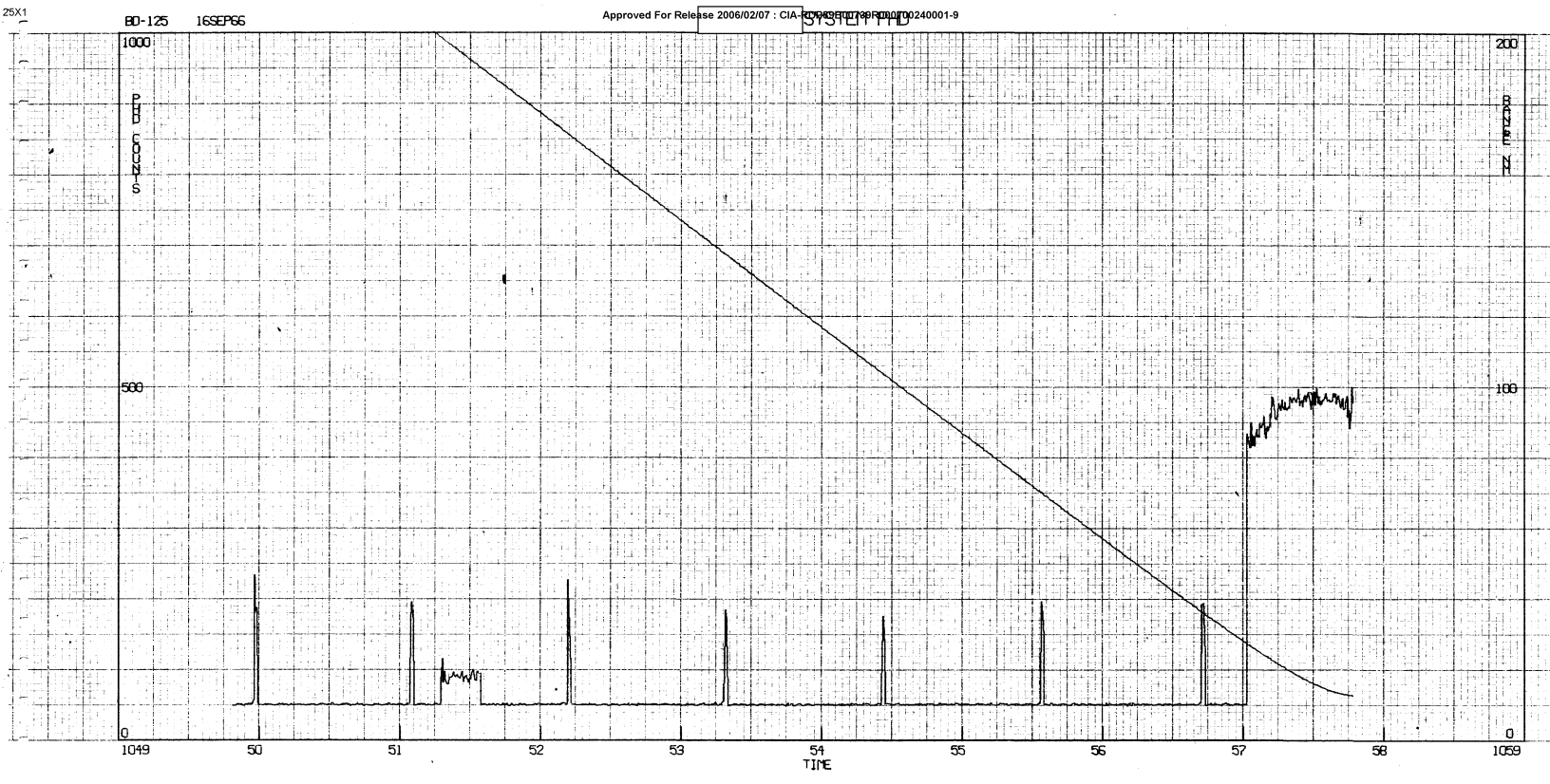

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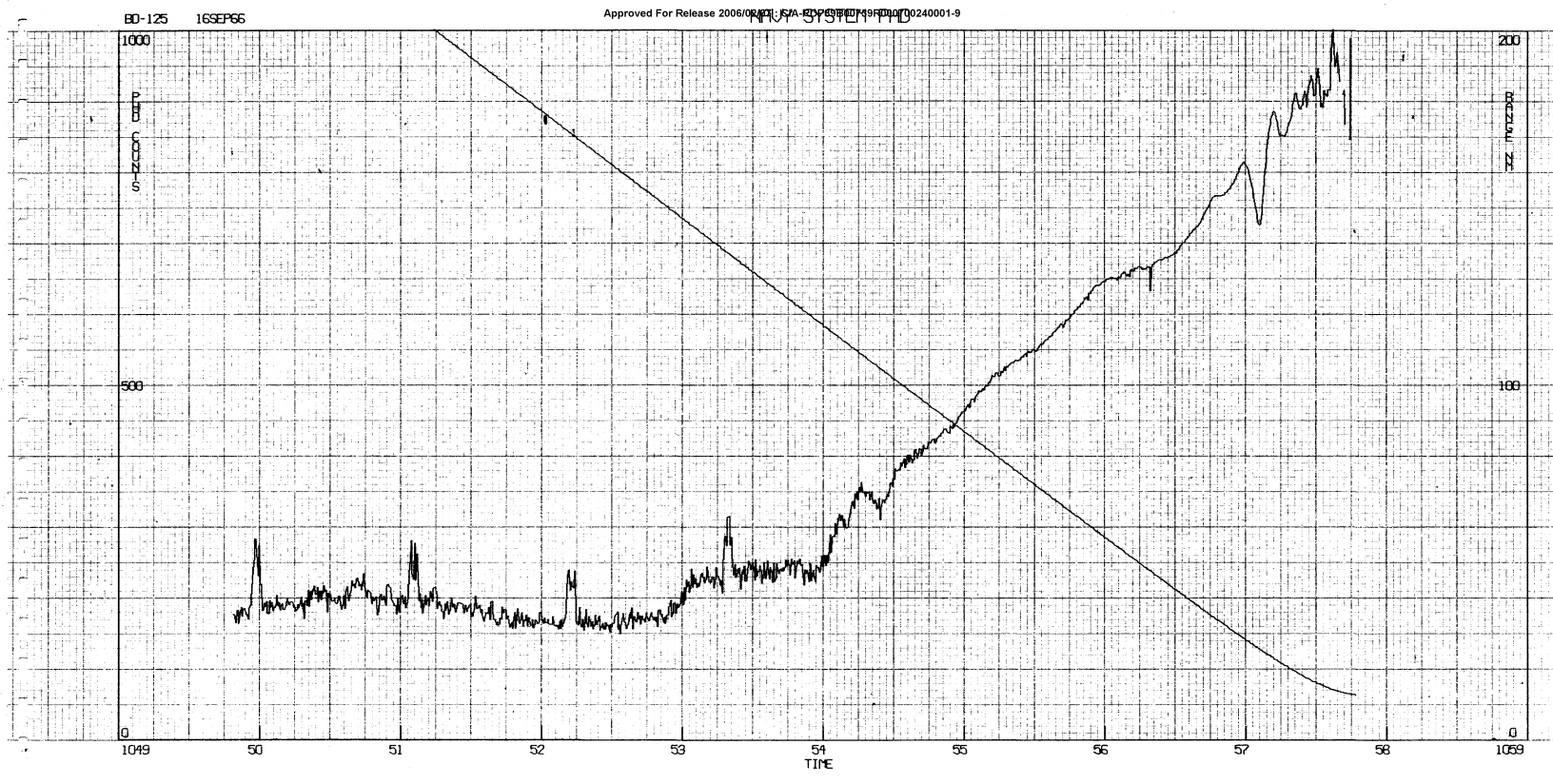

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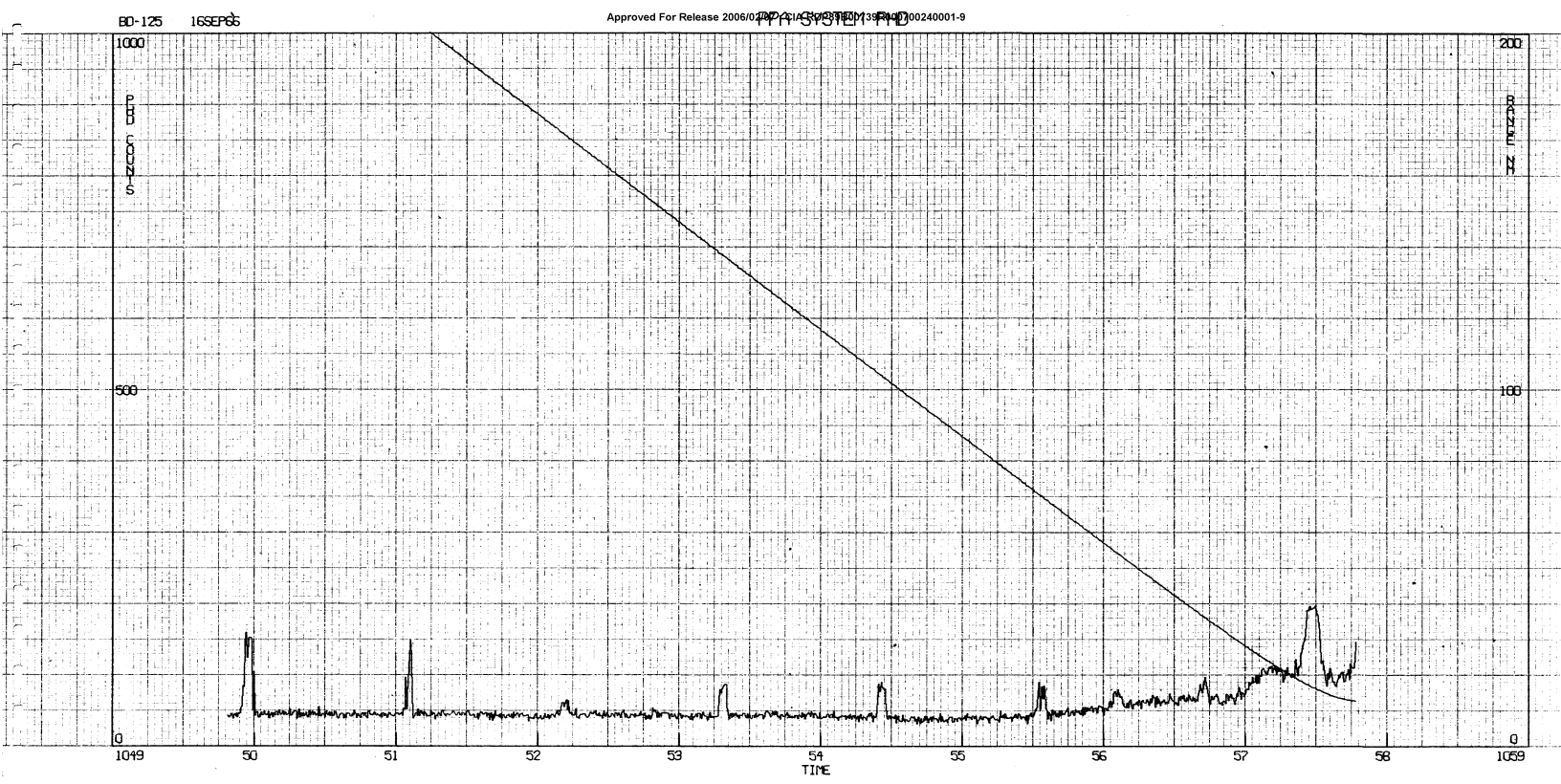

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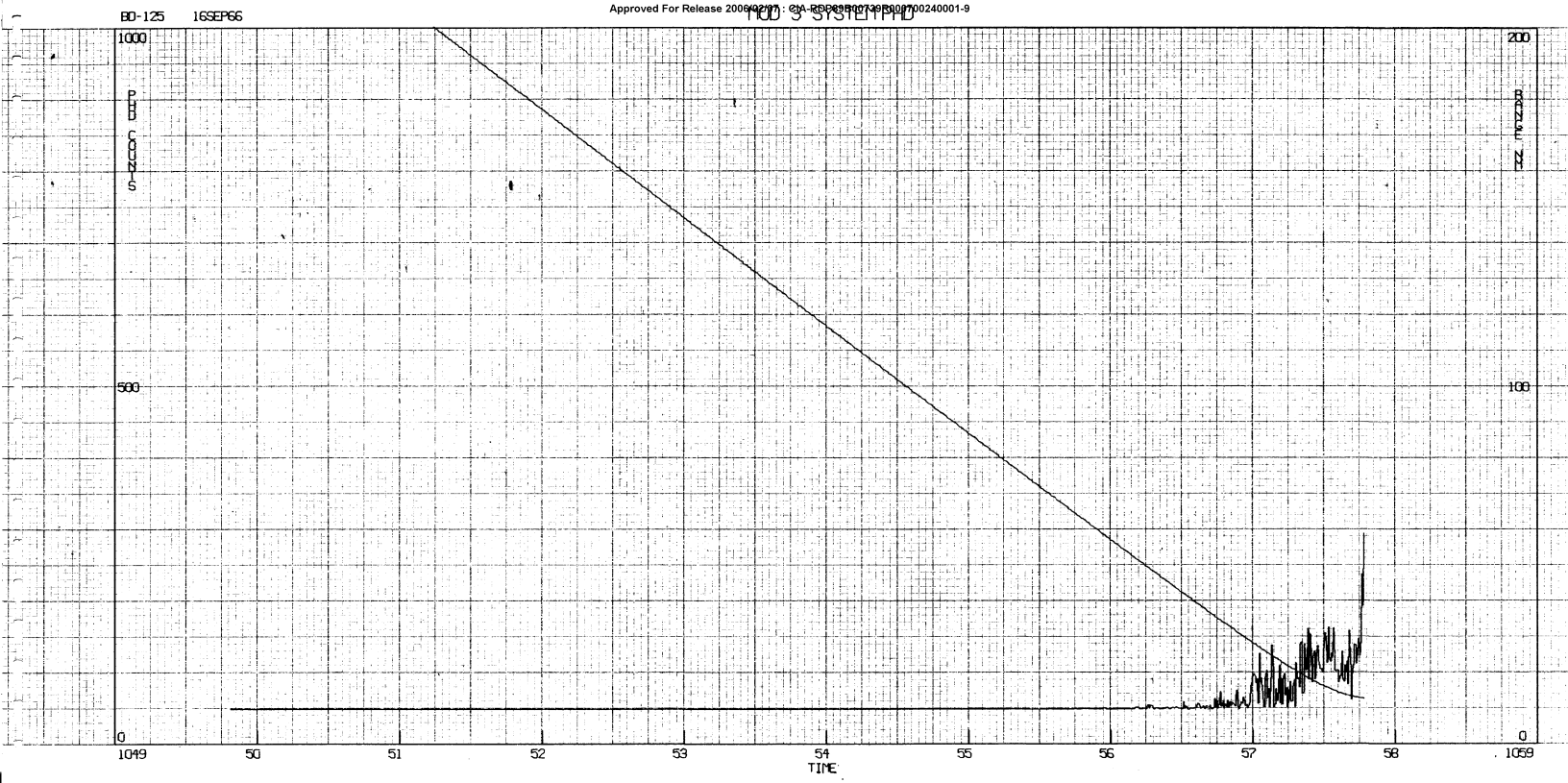
BD-125 16SEP66

MOD 3 SYSTEMPMD



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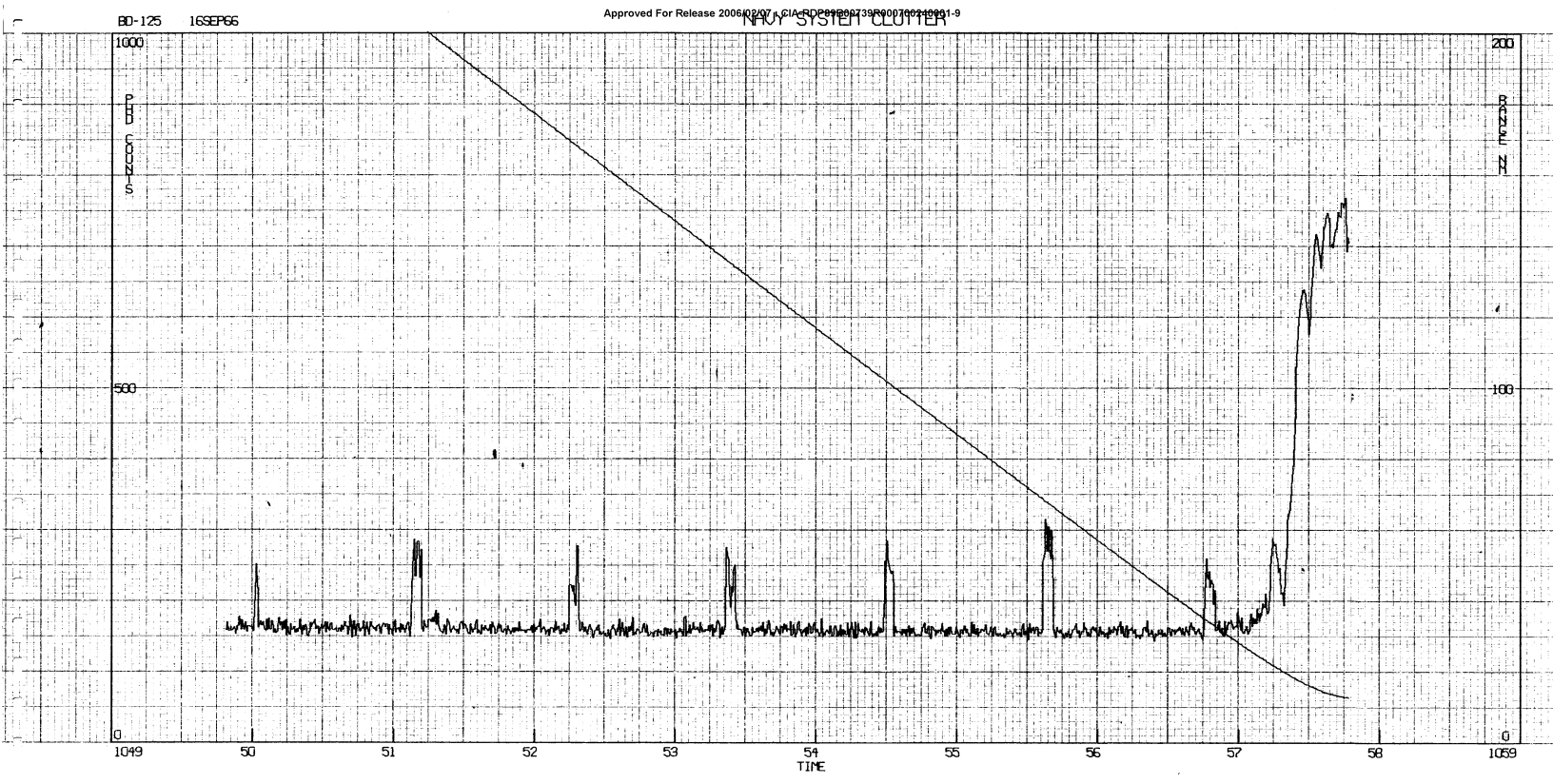

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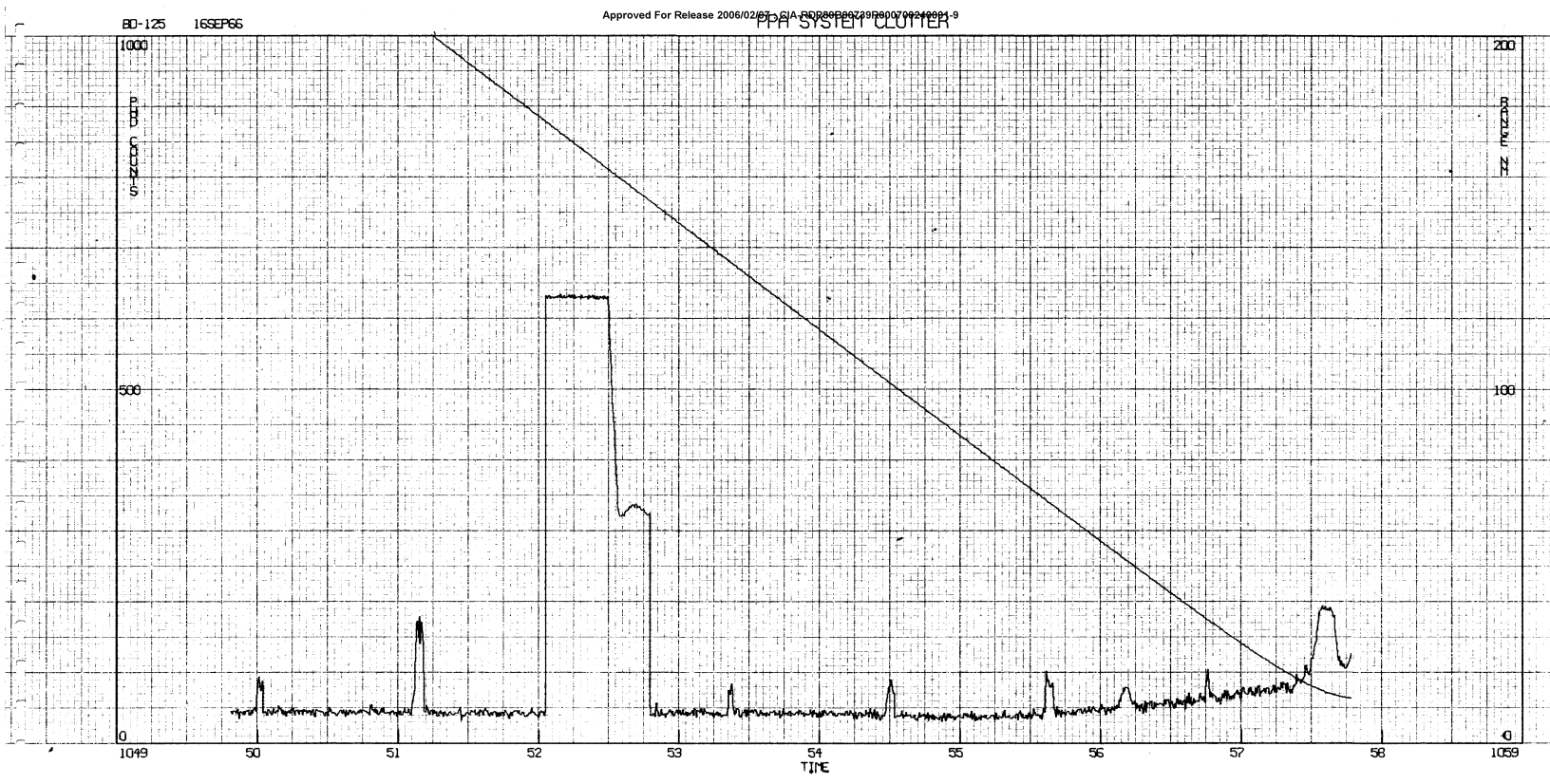

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DISTRIBUTION

25X1 [redacted] Copy 1 of 4

Copy 2 of 4

Deputy Commander, Materiel Copy 3 of 4

25X1 [redacted] Copy 4 of 4

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25X1

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TEST REPORT BD-126

Copy 2 of 4

Date of Test:	15 Sep 66
Data Run:	16 Sep 66
Report Issued:	16 Sep 66
Aircraft:	127
Flight:	171

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

SUMMARY OF TESTS

Test No. BD-126

	NIKE	[redacted]	MOD III	NAVY	PPA
RANGE TRACK	✓				
AZIMUTH TRACK	✓				
ELEVATION TRACK	✓				
[redacted]					
PHD		✓	✓	✓	✓

25X1

25X1

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INDEX

Test No. BD-12C

- [✓] Operating Log
- [✓] Flight Plan (Azimuth Angle versus Ground Range)
- [ ] 25X1 [ ] versus Time Plot
- [✓] Azimuth and Elevation versus Time Plot
- [ ] Depression Angle and Look Angle versus Time Plot
- [ ] Roll Angle, Pitch Angle and Heading Angle versus Time Plot
- [ ] 25X1 [ ] PHD and Range versus Time Plot for the [ ] 25X1 System (S-Band)
- [ ] 25X1 [ ] PHD and Range versus Time Plot for the MOD III System (C-Band)
- [✓] PHD and Range versus Time Plot for the Navy System
- [✓] PHD and Range versus Time Plot for the PPA System
- [✓] PHD Clutter and Range versus Time Plot for the Navy System
- [✓] PHD Clutter and Range versus Time Plot for the PPA System
- [✓] PHD and Range versus Time Plot for the MOD III System
- [✓] PHD and Range versus Time Plot for the [ ] System 25X1

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25X1

To: [redacted]

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

Date: SEPT 15 1966

Thru:

Test Number: BD 126

From:

Subject: TEST ACTIVITIES THIS DATE

SEP 1966

This memo contains 7 pages.

Other enclosures: PRE FLIGHT CHECK LIST

Special notations:

Test Resume: NIKE LOCKED ON AT 24E MILES.
[redacted] SMALL AND WIDE FROM CODE ON.
[redacted] RETURNS AT 47 MILES.
TRACED MISSILE OUTBOUND 23 MILES.
MISSILE PASSED 4 MILES WEST OF STATION.

Distribution:

[redacted]

25X1

Section "F" Log (1)
SPOD Files (1)

Other: Data Analysis (1)

_____ ( )

_____ ( )

_____ ( )

_____ ( )

_____ ( )

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VEHICLE TEST (✓) DATE: SEPT 15, 1966

EXTERNAL CAL. ( ) T.D. [redacted] 25X1

C. C. & A. TEST #: BD 126 A.T.D. [redacted]

DATA TAPE #:(AMF) BD 126 - 1A

DATA TAPE #:(DATA) BD 126 - 1A L.A.C. FLIGHT #: 171

AUDIO TAPE #: BD 126 - A L.A.C. TEST #: _____

25X1

I. SEQUENCE OF TEST:

A. FLY VEHICLE #127 TO OBTAIN AR DATA ON [redacted]

NAVY, PPA & MOD III SYSTEMS PLUS

EWS DATA ON [redacted] 25X1

II. VEHICLE INFORMATION:

A. ALTITUDE: 80 K

B. SPEED: MACH 3.2

C. I.N.S. (✓) OR MA-1 ( )

D. FLIGHT PLAN: VEHICLE TO FLY FROM [redacted]

INBOUND 33 min AFTER TAKEOFF FROM

[redacted] AT 336°T

III. EXTERNAL CALIBRATION:

A. C-47: ( ) SYSTEMS:

B. Helicopter: ( ) HINDIX: ( ) MOD III: ( )

C. MISC: ( ) NAVY: ( ) PPA: ( )

OTHER: ( )

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TEST #: BD 126

IV. DRY RUN INFORMATION

A. NIKE FLUXGATE CHECK:

NOT MAG: 4148.75

FLUXGATE: 0948.75

ERROR: 0.2 MILS

B. BENCH MARK CHECKS: (Nike, DSK, & MOD III)

DIFFERENTIALS "OFF", DSK SLAVED: NIKE/EYE: AZ: 0 EL: 0

DSK ANT: AZ: 0 EL: 0

MOD III SLAVED: NIKE EYE: AZ: 0 EL: 0

MOD III AZ: 2 CT EL: 3/4 Dn

C. TELEMETRY REFERENCE READINGS:

ROLL OCTAL: _____ INCLINOMETER #1 _____

PITCH OCTAL: _____ " " #2 _____

HEADING OCTAL: _____ " " #3 _____

MISC. OCTAL: _____ " " MISC: _____

TIME RECORDED:

DATA TAPES ON: _____ DATA TAPES OFF: _____

D. PRE-TEST ABNORMALITIES NOTED:

_____

_____

_____

_____

_____

_____

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DATE: [illegible] 1966

TEST #: BC 134

V. OPERATIONAL SYSTEMS STATISTICS:

25X1

A. [redacted] SYSTEM TIME NOTED: 1300.40

POWER OUT: 400 KW

FREQUENCY: 2.73 - 2.98 KMC

RECIEVER SENSITIVITY, MINUS 107 DBM

B. NAVY SYSTEM TIME NOTED: 1300.46

POWER OUT: 350 KW

FREQUENCY: 423 MC

RECIEVER SENSITIVITY, MINUS [illegible] DBM

C. MOD III SYSTEM TIME NOTED: 1300.48

POWER OUT: 120 KW

FREQUENCY: 5.4 KMC

RECIEVER SENSITIVITY, MINUS 91 DBM

D. PPA SYSTEM TIME NOTED: 1300.53

POWER OUT: 9.5 KW

FREQUENCY: 70 MC

RECIEVER SENSITIVITY, MINUS 100 DBM

E. OTHER SYSTEMS

NIKE SYSTEM (-)

RANGER SYSTEM (-)

TAPE CENTER (-)

TELEMETRY ( )

MONOPULSE ( )

Q BAY SYSTEM ( )

BULL GEAR SLAVED (-)

MISC. [illegible]

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ILLEGIB
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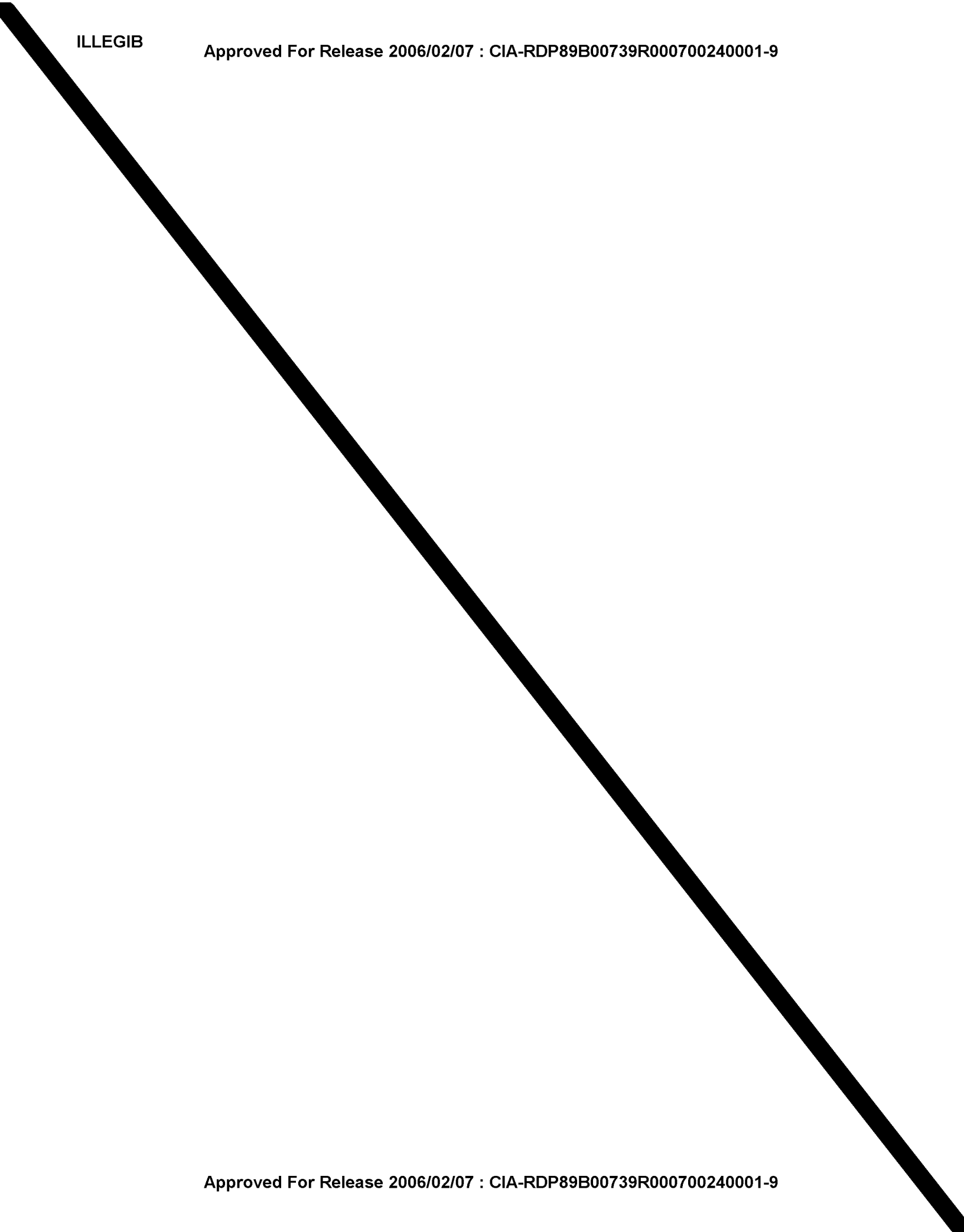

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RF INTERNAL CALIBRATIONS DATE: SEPT. 25, 1962

TEST # BD 126

ALL RANGES IN NAUTICAL MILES (✓) STATUTE MILES ( )

1239.22 # 1 RF Calibration RANGE: 110 MILES.

25X1 1241.40 Calib. Normal; Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

1242.60 # 2 RF Calibration RANGE: 50 MILES.

1244.20 Calib. Normal; Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

1244.40 # 3 RF Calibration RANGE: 30 MILES.

1247.67 Calib. Normal; Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

1254.55 # 4 RF Calibration RANGE: 13 MILES.

1257.26 Calib. Normal; Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration RANGE: _____ MILES.

_____ Calib. Normal; Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration RANGE: _____ MILES.

_____ Calib. Normal; Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations RANGE: _____ MILES.

_____ Calib. Normal; Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations RANGE: _____ MILES.

_____ Calib. Normal; Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations RANGE: _____ MILES.

_____ Calib. Normal; Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal; Navy ( ) PPA ( ) Mod III ( )

NOTE: _____

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TEST # BD 126

TEST INFORMATION ARTICLE 127 IS [redacted]

1245.23 LIFT OFF

1249.45 NIKE AUTO TRACK [redacted]

1252.28 RANGE [redacted]

1252.45 BROKE TRACK

1319.22 Vehicle Airborne - acquired

1319.36 Nike in Auto Track RANGE 248 MILES

1319.52 T/M Tuned & Synced Data Tape On

25X1 1320.20 [redacted] E NAVY VIDEO FROM LOCK-ON

1321.11 RANGE [redacted]

1322.27 VIDEO TAPE ON

1322.58 RANGE 150 MILES

1324.31 " 100 "

1324.57 " 90 "

1325.12 " 80 "

1325.31 " 70 "

1325.48 " 60 "

1326.09 50

25X1 1326.16 [redacted] RETURNS 47 MILES

1326.38 RANGE 40 MILES

1326.54 " 30 "

1327.05 " 25 "

1327.19 " 20 "

1327.44 " 15 " CPA

1328.22 NIKE LOST LOCK 23 MILES

1329.11 DATA TAPES OFF

1329.16 [redacted] 13 MILES

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25X1

PREFLIGHT CHECK LIST

Date

MISSION DATA

VEHICLE			COMMUNICATIONS/IFF			ROUTE							
A/C Number	Flight Number	Call Sign	Channel	Mode	Code	Name	Purpose	To Time	D.T.G.	Look Angle	Time	Alt.	Spd
157	171	[illegible]	66	3	99		ED-2	1500	2:00	356	T-0	6	[illegible]
							BWS				+35		
							356.						

Box-116
Box-18
Post Operations or Alt: Will CALL CH 6 RELEASE TO CE[illegible]
ONE SET 4 MI WEST
To CAUSE TURNS
TUNNEL 270 TO 3[illegible]

SYSTEM DATA

CONFIGURATION											COMPUTER PRINTOUT	
BENDIX		NAVY		MOD III		PPA		T/M	NIKE			
Xmit	Rec	Xmit	Rec	Xmit	Rec	Xmit	Rec		Beac	Skin	Normal	Special
✓	✓	✓	✓	✓	✓	✓	✓	NA	✓			PRINT OUT ON ALL

AUXILIARY EQUIPMENT:
[illegible]
Radar Beacon ON
I.R.
Others

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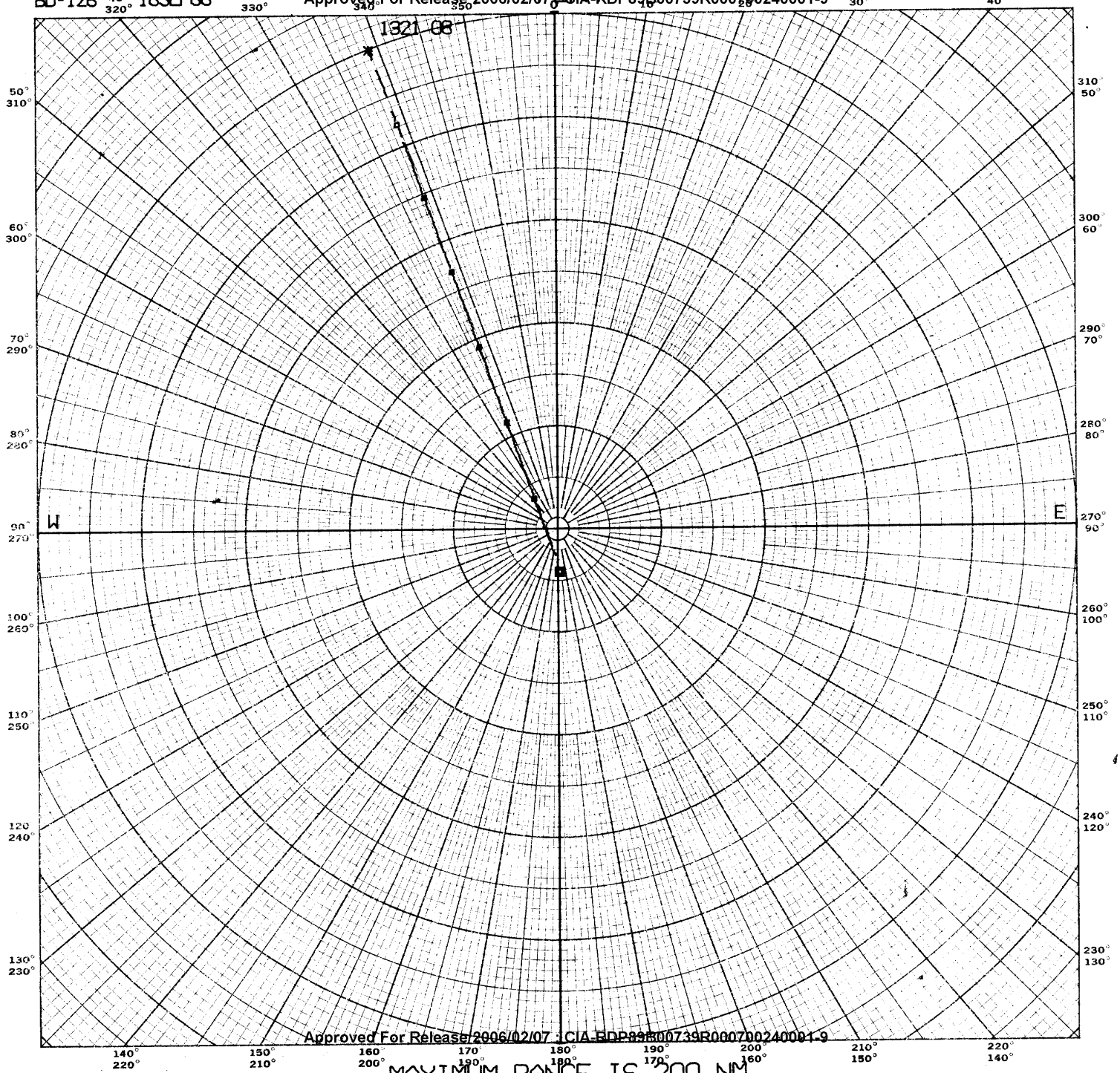
BD-126 16SEP66

F PLAN

1321 08



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MAXIMUM RANGE IS 200 NM

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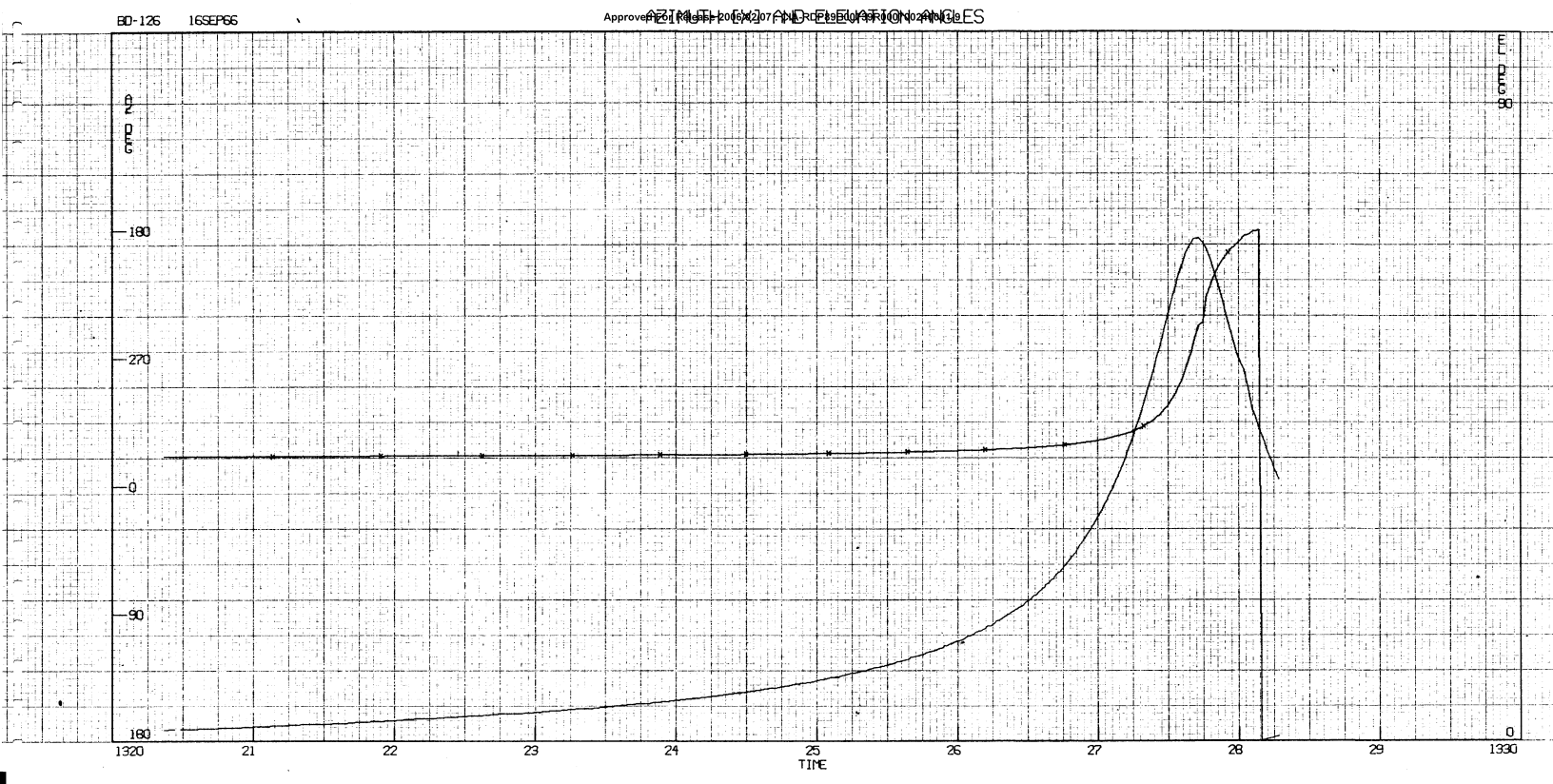

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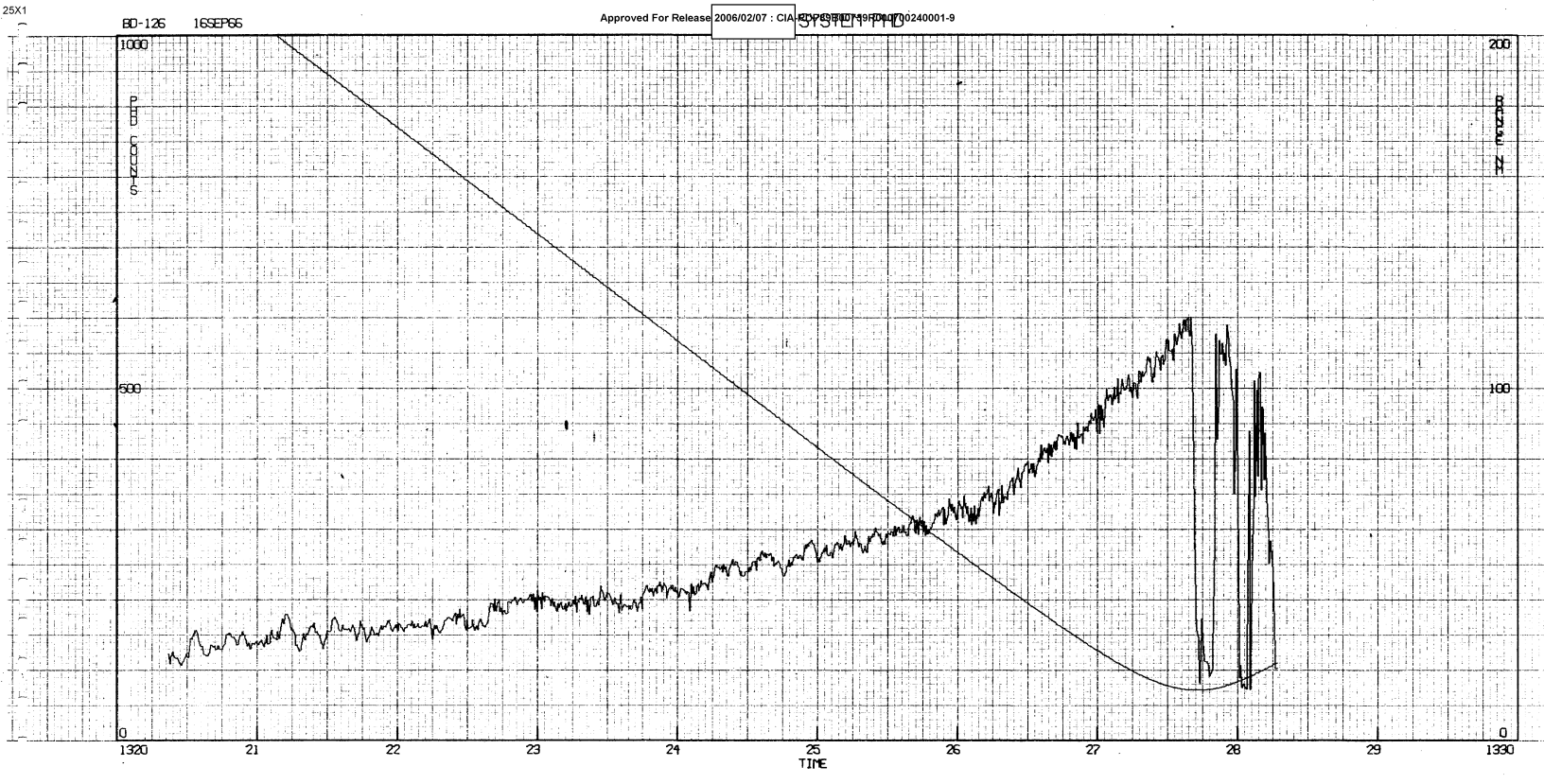

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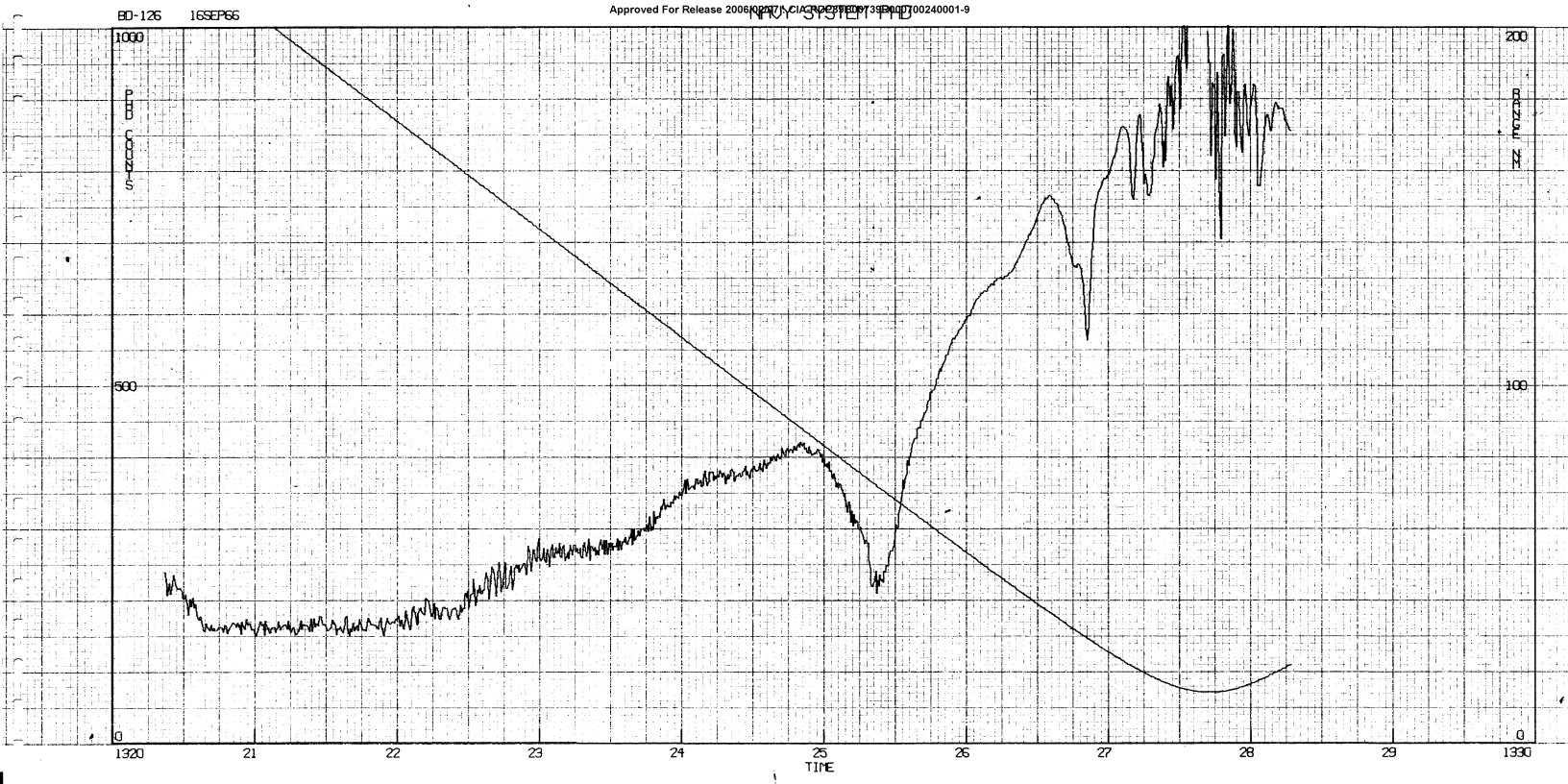

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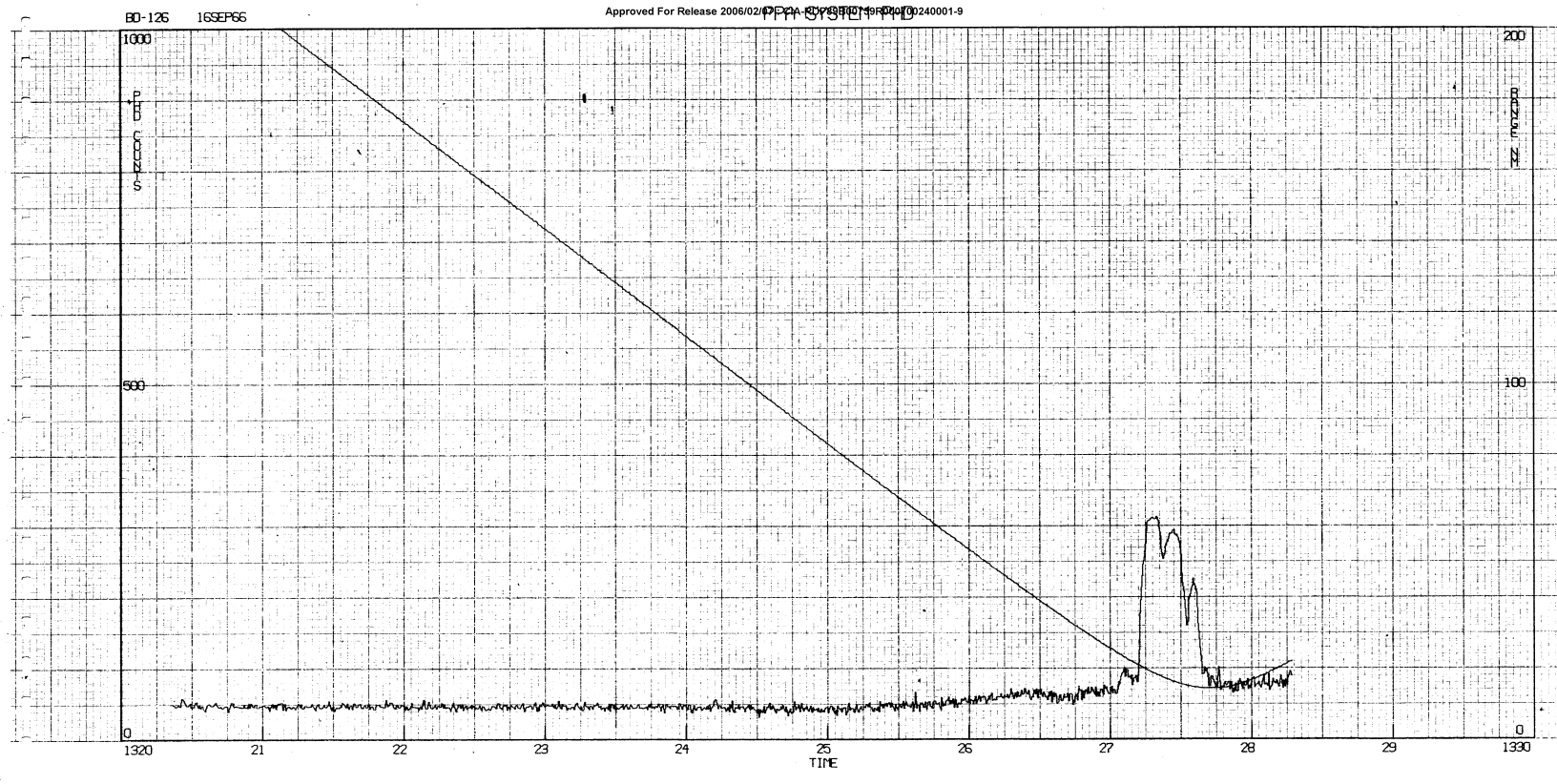

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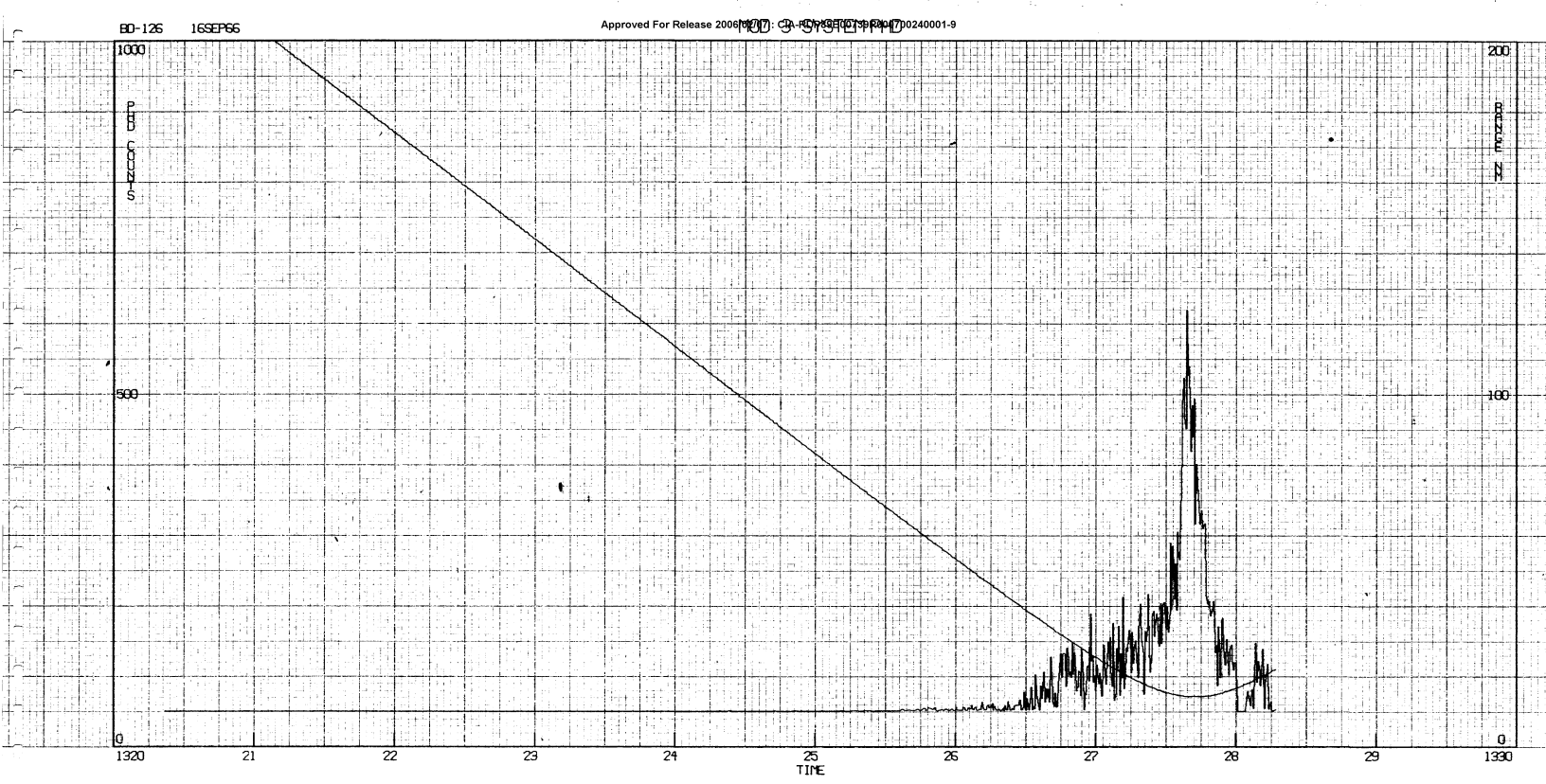

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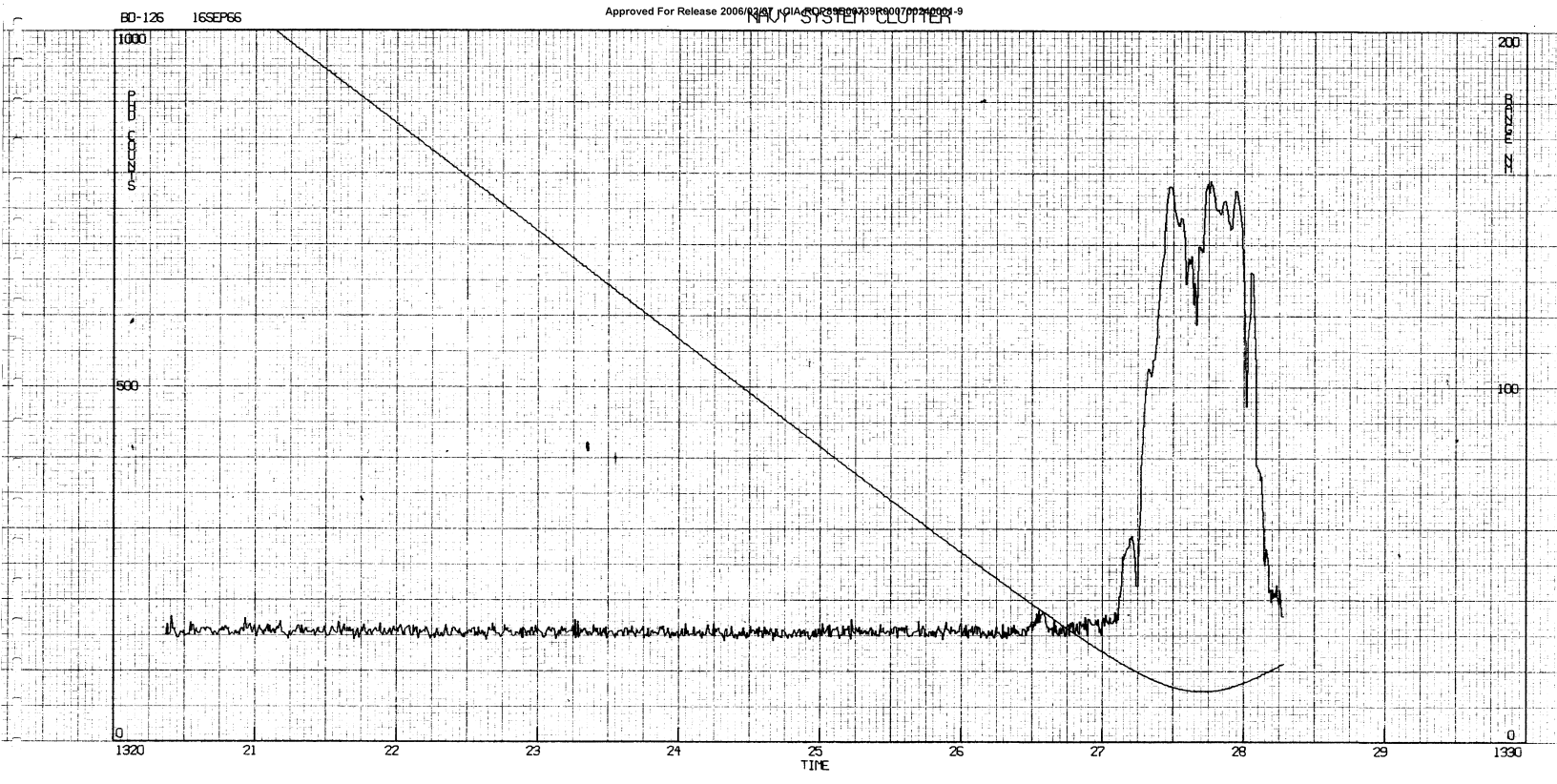

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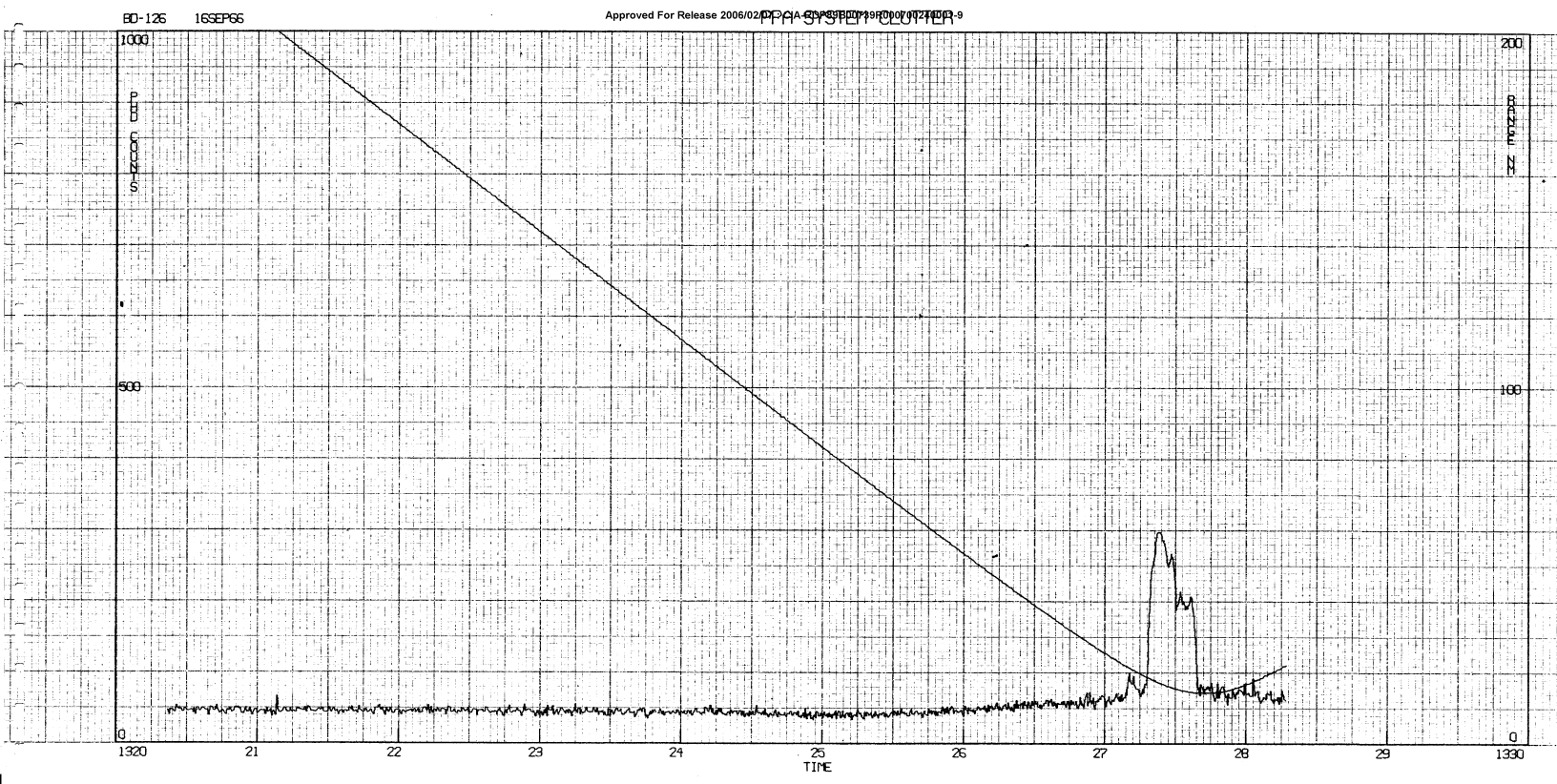

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TEST REPORT BD-127

Copy 2 of 4

Date of Test:	16 Sep 66
Data Run:	16 Sep 66
Report Issued:	16 Sep 66
Aircraft:	129
Flight:	172

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SUMMARY OF TESTS

Test No. BD-127

	NIKE	[redacted]	MOD III	NAVY	PPA
RANGE TRACK	✓				
AZIMUTH TRACK	✓				
ELEVATION TRACK	✓				
[redacted]		✓			
PHD			✓	✓	✓

25X1

25X1

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INDEX

Test No. BD-127

- [x] Operating Log
- [x] Flight Plan (Azimuth Angle versus Ground Range)
- [ ] 25X1 [redacted] versus Time Plot
- [x] Azimuth and Elevation versus Time Plot
- [ ] Depression Angle and Look Angle versus Time Plot
- [ ] Roll Angle, Pitch Angle and Heading Angle versus Time Plot
- [x] 25X1 [redacted] PHD and Range versus Time Plot for the [redacted] 25X1 System (S-Band)
- [ ] 25X1 [redacted] PHD and Range versus Time Plot for the MOD III System (C-Band)
- [x] PHD and Range versus Time Plot for the Navy System
- [x] PHD and Range versus Time Plot for the PPA System
- [x] PHD Clutter and Range versus Time Plot for the Navy System
- [x] PHD Clutter and Range versus Time Plot for the PPA System
- [x] PHD and Range versus Time Plot for the MOD III System
- [ ]

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25X1

To: [redacted]

Thru

From

Date: 16 Sept 1966

Test Number: BO-122

Subject: TEST ACTIVITIES THIS DATE

This memo contains 8 pages.

Other enclosures: Pre Flight check list.

Special notations: [redacted] did not participate as we had no EWS Data.

Test Resume: Lock on at 242 mi. All systems good.

25X1

[redacted]

Distribution:

Section "F" Log (1)
SIOD Files (1)

Other Data Analysis (1)

( )

( )

( )

( )

( )

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25X1 Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

T.S. SERIES: [redacted]

VEHICLE TEST ( )

DATE: 16 Sept 1986

EXTERNAL CAL. ( )

T.O. [redacted] 25X1

G. & C. TEST #: BD-127

A.T.O. [redacted]

DATA TAPE #:(AMP) BD-127-1A+2A

DATA TAPE #:(DATA) BD-127-1A+2A

L.A.C. FLIGHT #: 172

AUDIO TAPE #: BD-127-A

L.A.C. TEST #: _____

25X1

I. SEQUENCE OF TEST:

A. FLY VEHICLE # 129 TO OBTAIN (1) EWS data with [redacted] 25X1

25X1 [redacted] + [redacted] [redacted] in Rec. only.)

(2) To obtain AR data on Navy, Mod III + PPA.

II. VEHICLE INFORMATION:

A. ALTITUDE: 80 K

B. SPEED: 3.2

C. I.N.S. (✓) OR MA-1 ( )

25X1 D. FLIGHT PLAN: [redacted] route - Inbound on a bearing of 336°T 33 min. after take off.

III. EXTERNAL CALIBRATION:

A. C-17: ( )

B. Helicopter: ( )

C. MISC: ( )

SYSTEMS:

BENDIX: (✓) MOD III: (✓)

NAVY: (✓) PPA: (✓)

OTHER: ( )

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DATE: [illegible]

TEST #: BH-128.

IV. DRY RUN INFORMATION

A. NIKE PLUNGE CHECK:

NORMAL: 4148.8

PLUNGED: 0948.8

ERROR: 0.0 MILS

B. BENCH MARK CHECKS: (Nike, DSK, & MOD III)

DIFFERENTALS "OFF", DSK SLAVED: NIKE/EYE: AZ: 0 EL: 0

DSK ANT: AZ: 4LF EL: 0

MOD III SLAVED: NIKE EYE: AZ: 0 EL: 0

MOD III AZ: 2Rt EL: 1Dn

C. TELEMETRY REFERENCE READINGS:

ROLL OCTAL: _____ INCLINOMETER #1 _____

PITCH OCTAL: _____ " " #2 _____

HEADING OCTAL: _____ " " #3 _____

MISC. OCTAL: _____ " " MISC: _____

TIME RECORDED:

DATA TAPES ON: _____ DATA TAPES OFF: _____

D. PRE-TEST ABNORMALITIES NOTED:

_____

_____

_____

_____

_____

_____

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SRC: [illegible]

TEST #: [illegible]

V. OPERATIONAL SYSTEMS STATISTICS:

25X1

A. [redacted] SYSTEM TIME NOTED: _____

POWER OUT: _____ KW

FREQUENCY: _____ KMC

RECIEVER SENSITIVITY, MINUS _____ DBM

B. NAVY SYSTEM TIME NOTED: 0919.28

POWER OUT: 350 KW

FREQUENCY: 173 MC

RECIEVER SENSITIVITY, MINUS 115 DBM

C. MOD III SYSTEM TIME NOTED: 0918.35

POWER OUT: 110 KW

FREQUENCY: 5.4 KMC

RECIEVER SENSITIVITY, MINUS 91 DBM

D. PPA SYSTEM TIME NOTED: 0922.00

POWER OUT: 9.5 KW

FREQUENCY: 70 MC

RECIEVER SENSITIVITY, MINUS 116 DBM

E. OTHER SYSTEMS

NIKE SYSTEM (✓)

RANGER SYSTEM (✓)

TAPE CENTER (✓)

TELEMETRY ( )

MONOPULSE ( )

Q BAY SYSTEM ( )

BULL GEAR SLAVED (✓)

MISC. _____

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DATE: 7 [illegible]

TEST # [illegible]

OPERATION/DATA

I. TAPE RECORDERS:

Ampex Recorder #1	Normal (X)	Abnormal ( )
Ampex Recorder #II	Normal (X)	Abnormal ( )

Remarks: _____

Datamec Recorder #I — Normal (X) — Abnormal ( )
Datamec Recorder #II — Normal (X) — Abnormal ( )

Remarks: _____

II. R. F. SYSTEMS:

25X1

[redacted]	Normal (X)	Abnormal ( )
Navy	Normal (X)	Abnormal ( )
MOL III	Normal (X)	Abnormal ( )
III	Normal (X)	Abnormal ( )
Other: _____	Normal ( )	Abnormal ( )

Remarks: _____

III. DIGITAL: 3 AS

PSK Decoders	EL/Z	Normal (X)	Abnormal ( )
Like Decoders	EL/X	Normal (X)	Abnormal ( )
Telemetry (Ground)		Normal ( )	Abnormal ( )
Telemetry (3-Bay)		Normal ( )	Abnormal ( )
Ranger		Normal (X)	Abnormal ( )

Remarks: _____

IV. MISC. REMARKS (NO [illegible]):

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RF INTERNAL CALIBRATIONS DATE: 16 Sept 67

TEST # 67-127

ALL RANGES IN NAUTICAL MILES ( ) STATUTE MILES ( )

0932:25 # 1 RF Calibration — RANGE: 110 MILES.

25X1 0934:44 Calib. Normal; — Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

0935:05 # 2 RF Calibration — RANGE: 50 MILES.

0937:30 Calib. Normal; — Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

0937:47 # 3 RF Calibration — RANGE: 30 MILES.

0940:15 Calib. Normal; — Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

0940:52 # 4 RF Calibration — RANGE: 13 MILES.

0943:17 Calib. Normal; — Navy (✓) PPA (✓) Mod III (✓)
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration — RANGE: _____ MILES.

_____ Calib. Normal; — Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration — RANGE: _____ MILES.

_____ Calib. Normal; — Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations — RANGE: _____ MILES.

_____ Calib. Normal; — Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations — RANGE: _____ MILES.

_____ Calib. Normal; — Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibrations — RANGE: _____ MILES.

_____ Calib. Normal; — Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal — Navy ( ) PPA ( ) Mod III ( )

NOTE:

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TEST # BC-147

TEST INFORMATION 0919:29 - Red Check OK

25X1 Note - [redacted] informed us that they would not participate on this test.

0923:37	Vehicle Airborne - acquired
0926:34	Nike in Auto Track 21 mi.
	T/M Tuned & Synced Data Tape On
0926:40	DSK Slaved.
0930:40	Range 60 mi. Brake track.
0932:25	Started internal Calibrations.
0943:17	Completed internal Calibrations.
~~0950:29~~	
0955:09	Nike Auto 242 mi.
0955:12	DSK slaved
0955:28	Data tapes on
0956:18	S-Band returns.
0956:22	Lost S-Band returns.
0956:32	200 mi. Range.
0958:13	150 mi. Range.
0959:52	100 mi. Range.
1000:34	80 mi. Range
1001:09	60 mi. Range
1001:52	40 mi. Range - C-Band returns.
1002:21	PPA returns
1002:37	20 mi. Range
1003:06	14 mi CPA - Last Look

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1003.40 Data tapes off.

— TEST COMPLETED —

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PREFLIGHT CHECK LIST

Date

MISSION DATA

VEHICLE			COMMUNICATIONS/IFF			ROUTE							
A/C Number	Flight Number	Call Sign	Channel	Mode	Code	Name	Purpose	To Time	D.T.G.	Look Angle	Time	Alt.	Sp.
761	172	23	96	3/A	44		EWS	930	200	556	TO + 33	8K	3

Special Operations Or Flight: WILL CALL ON CH-16 200 DTG

NO COVER TIMES

SYSTEM DATA

CONFIGURATION												
BEACON		NAVY		MOD III		PPA		I/M	NIKE		COMPUTER PRINTOUT	
Xmit	Rec	Xmit	Rec	Xmit	Rec	Xmit	Rec		Beac	Skin	Normal	Special
	✓	✓	✓	✓	✓	✓	-	NA	✓		✓	

AUXILIARY EQUIPMENT:

[redacted] ✓

[redacted] NOT

[redacted]

Others:

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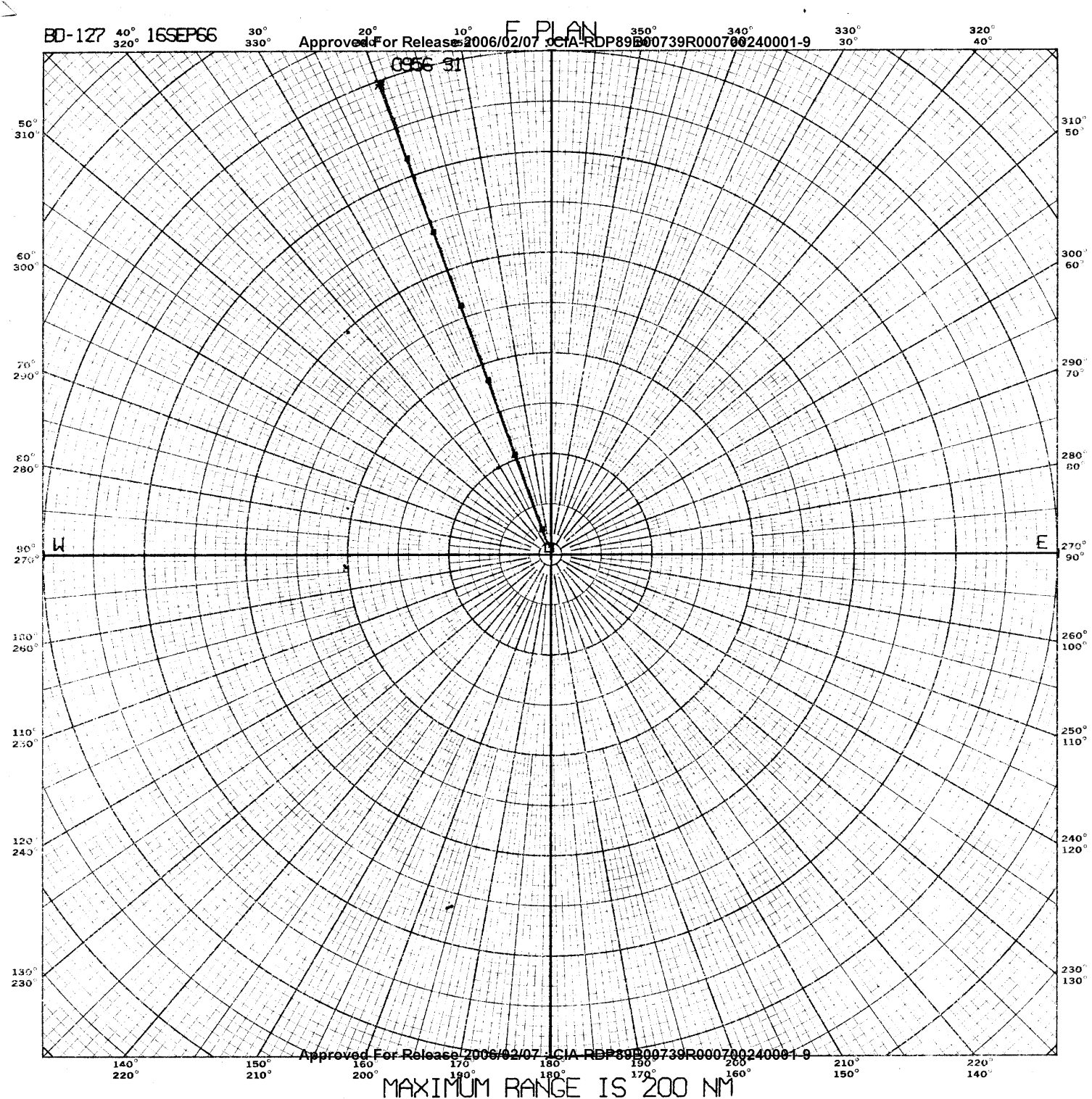

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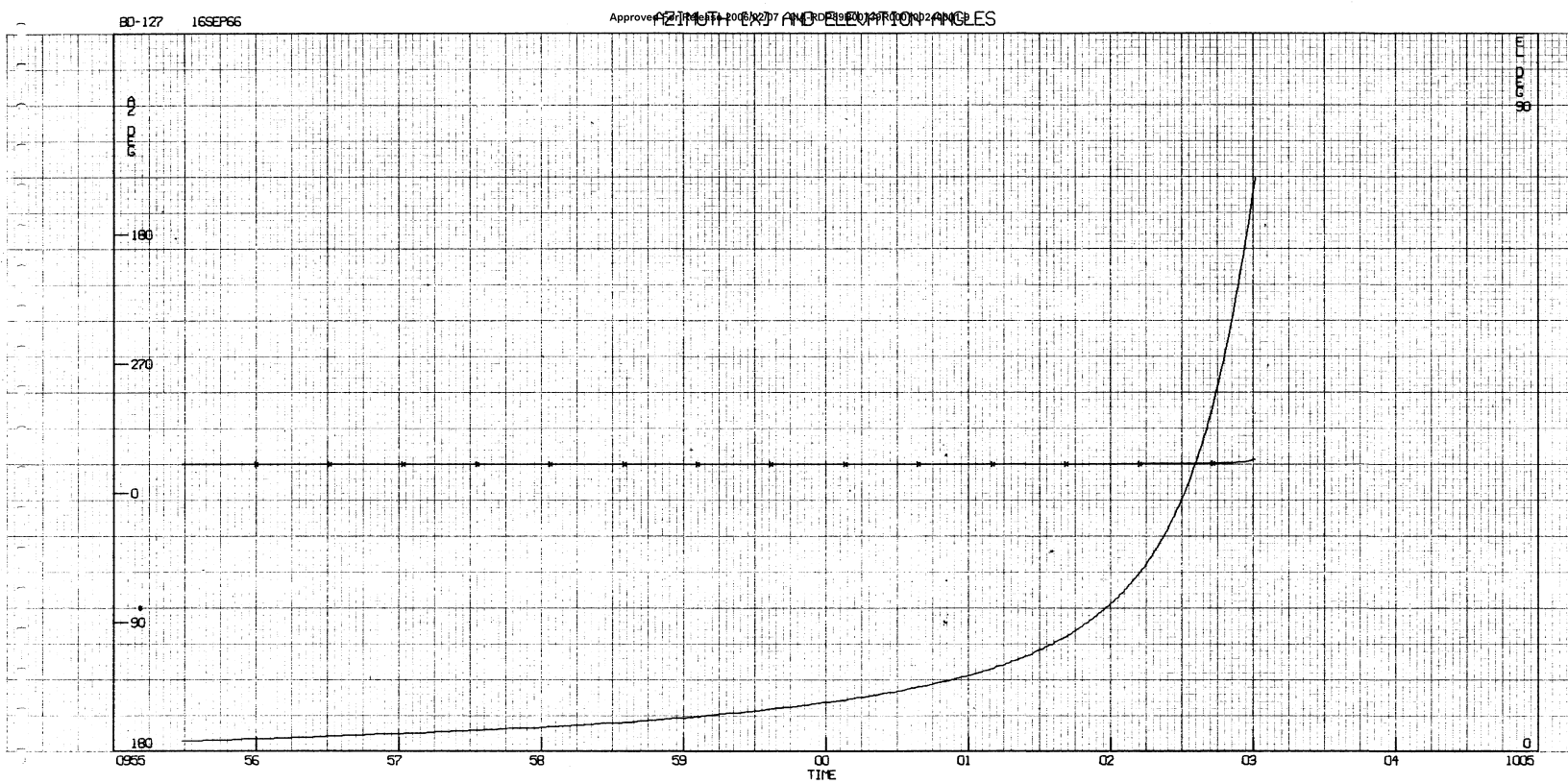

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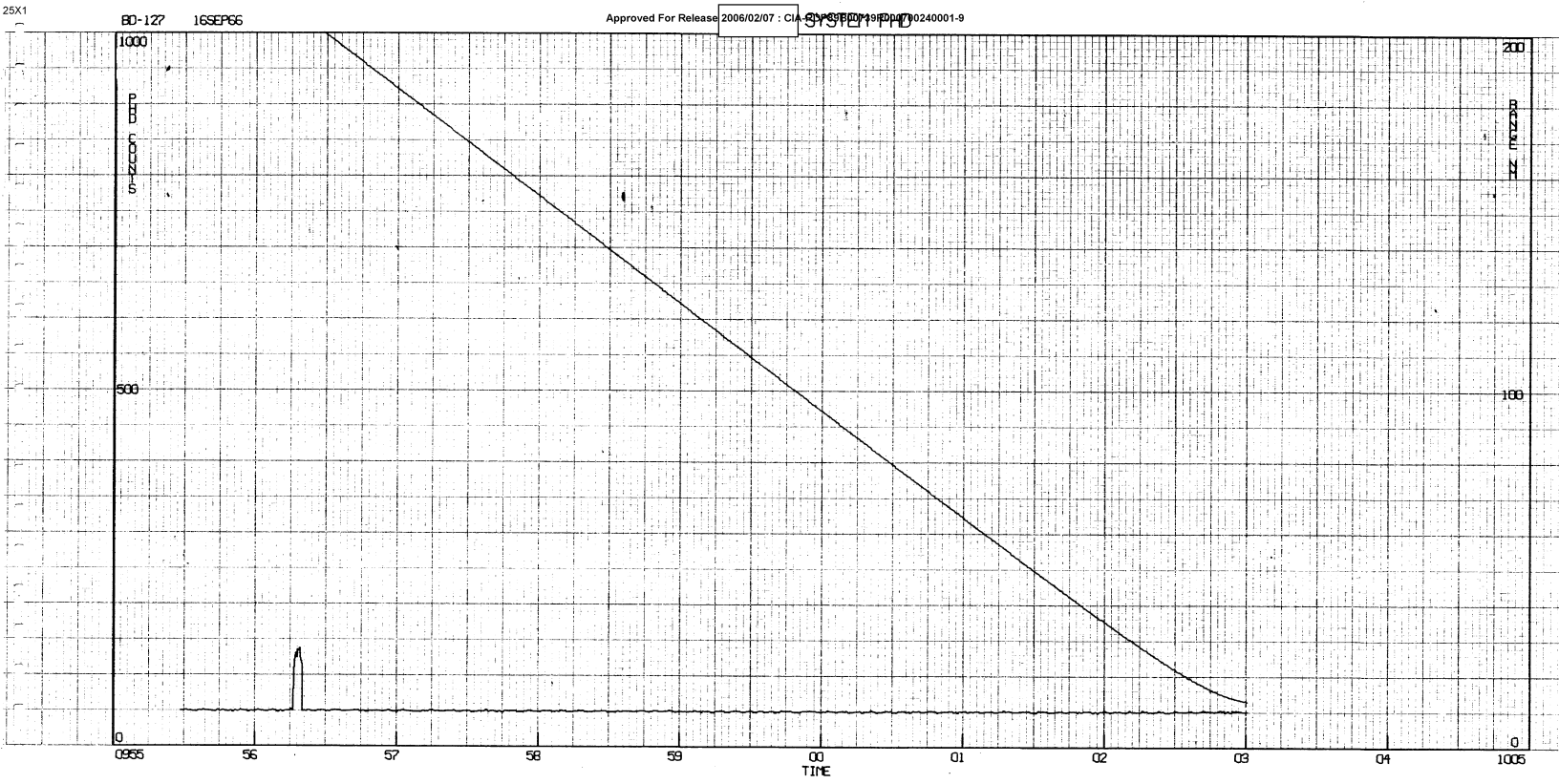

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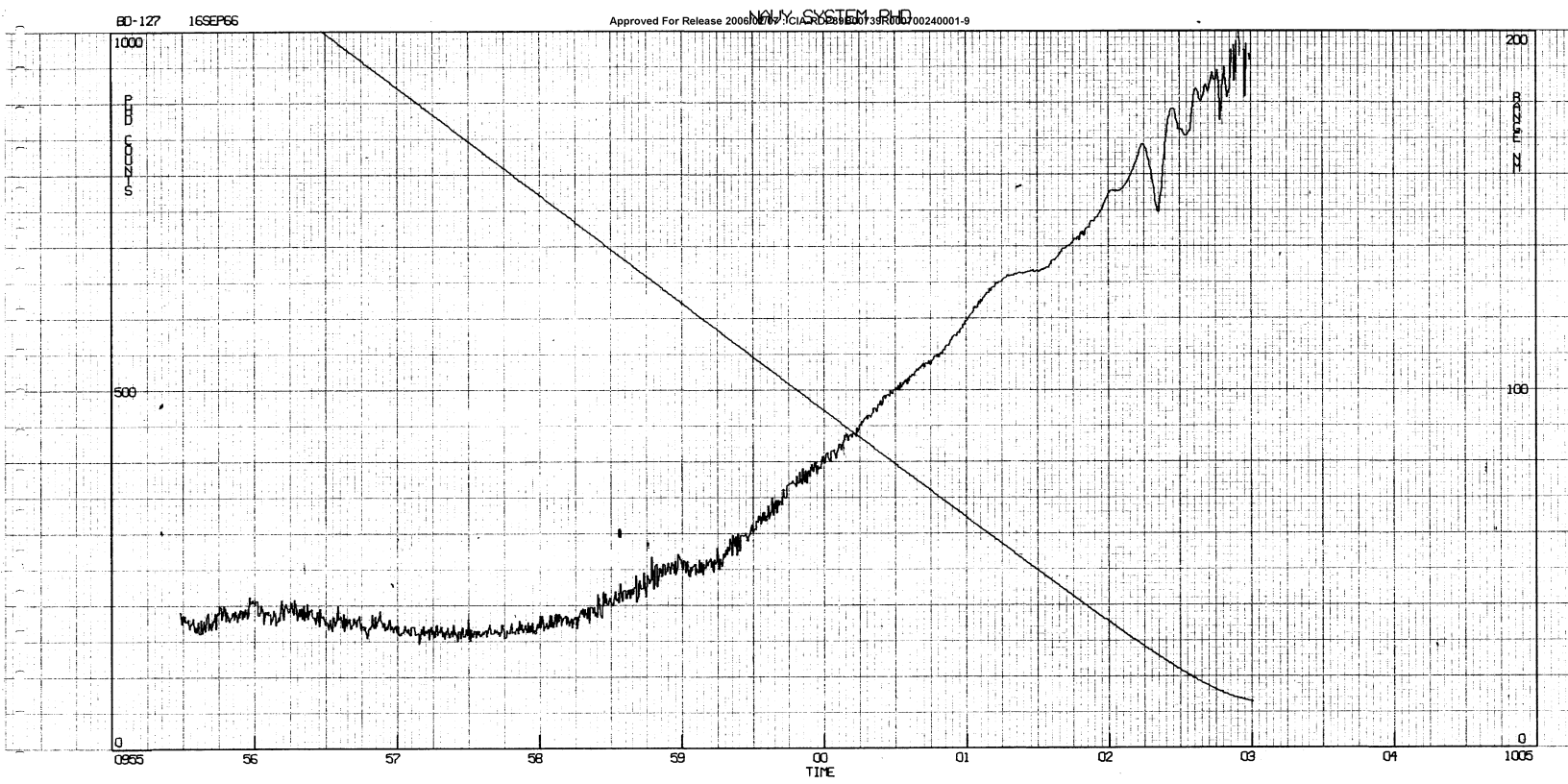

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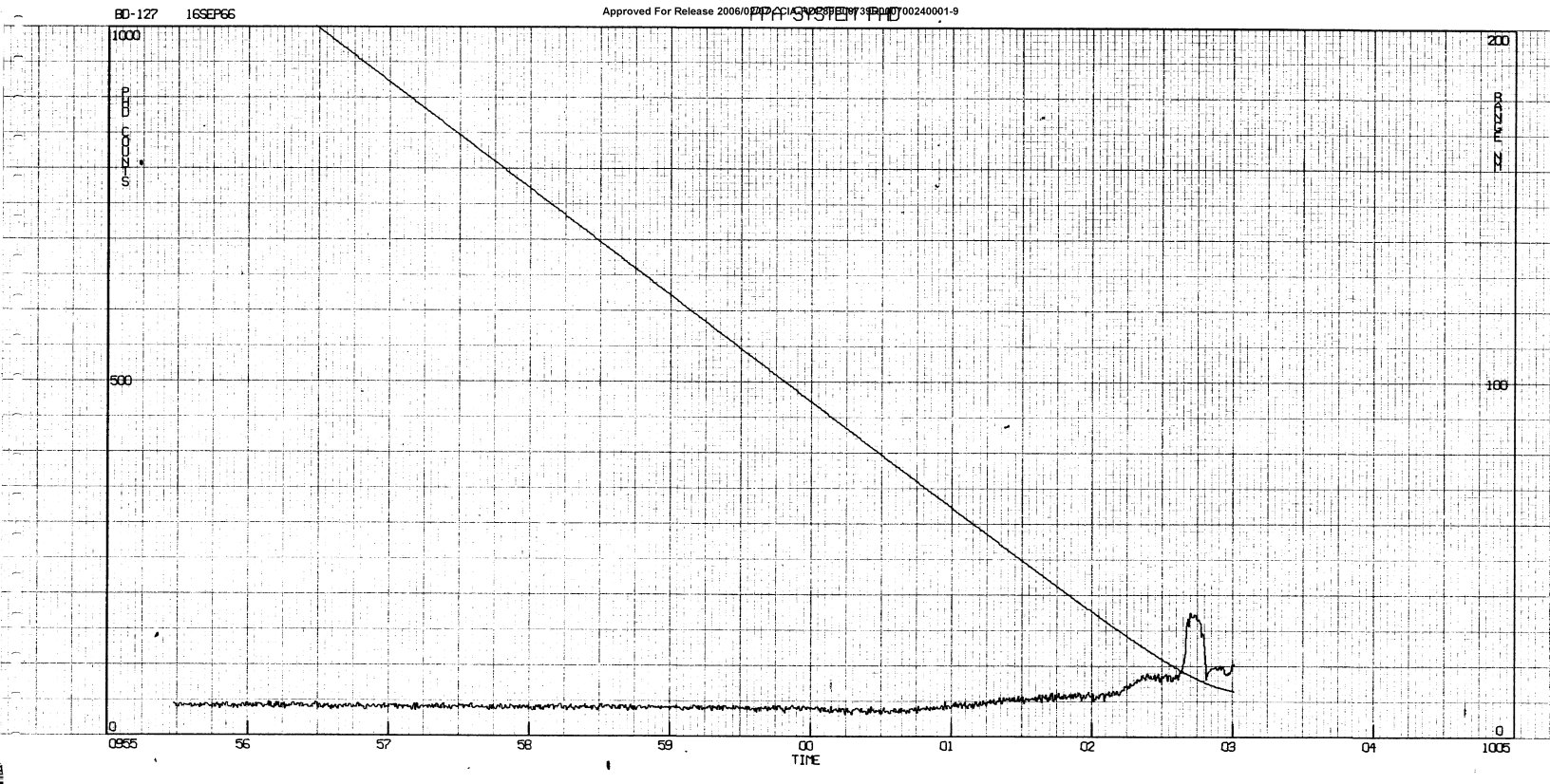

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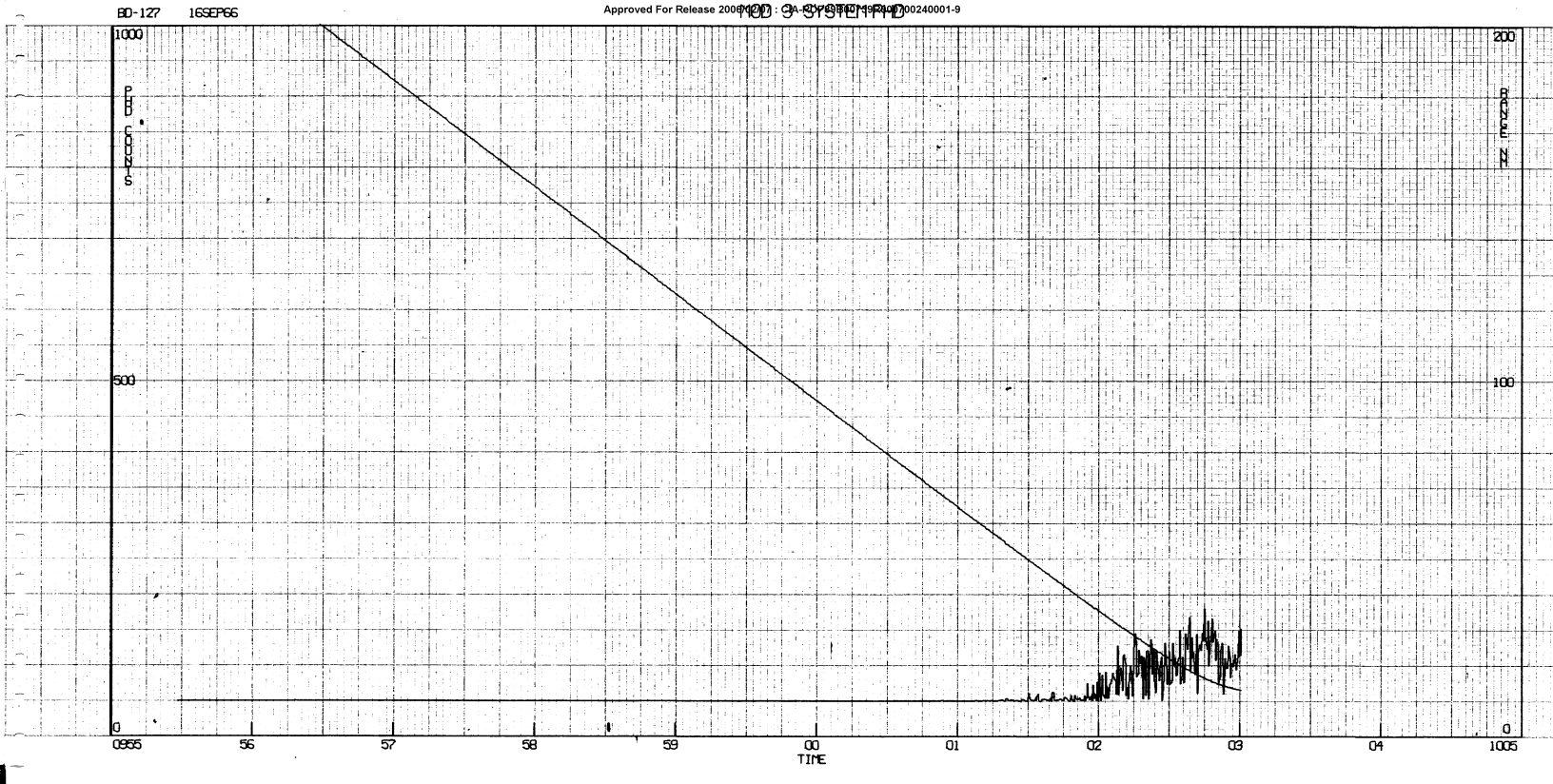

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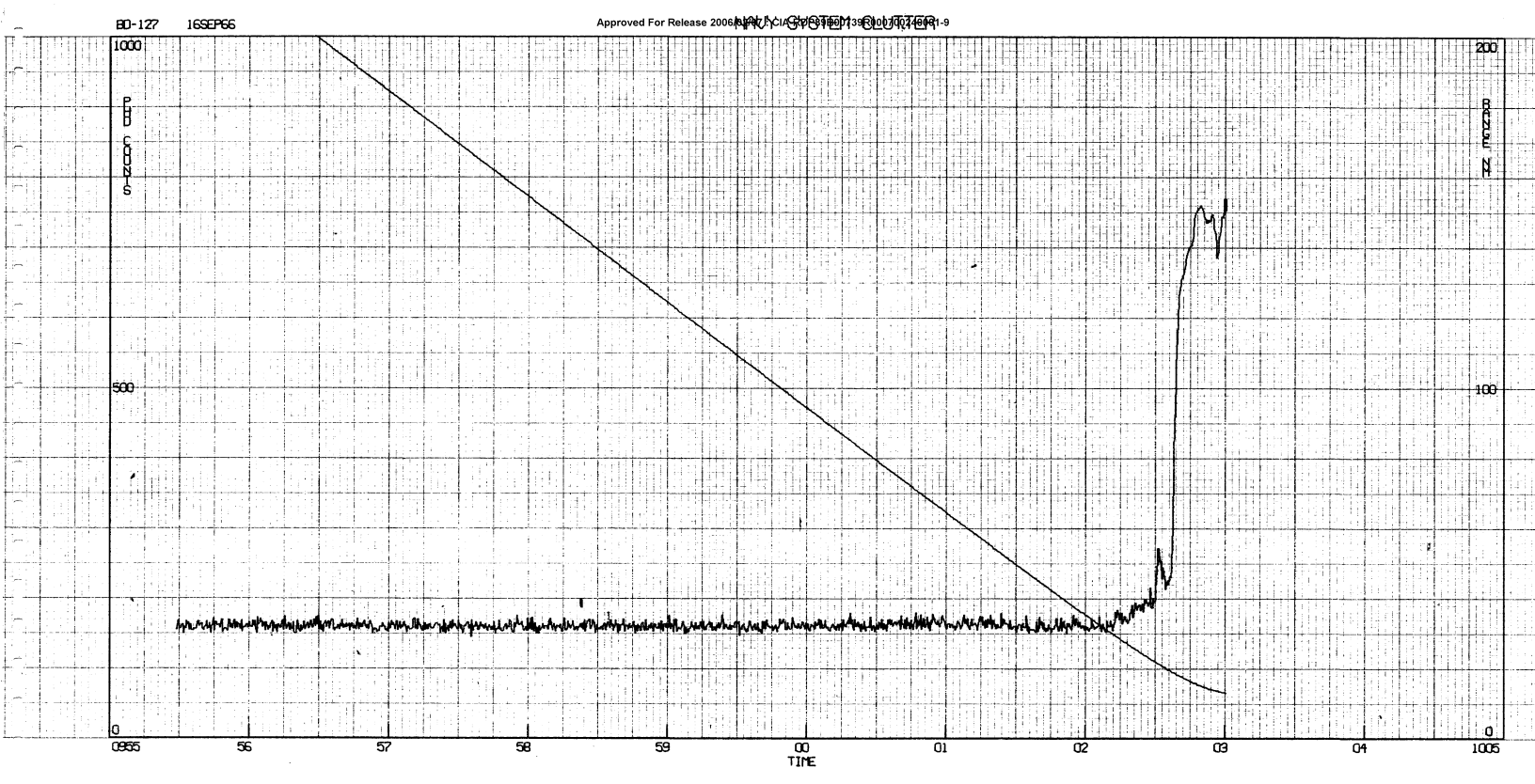

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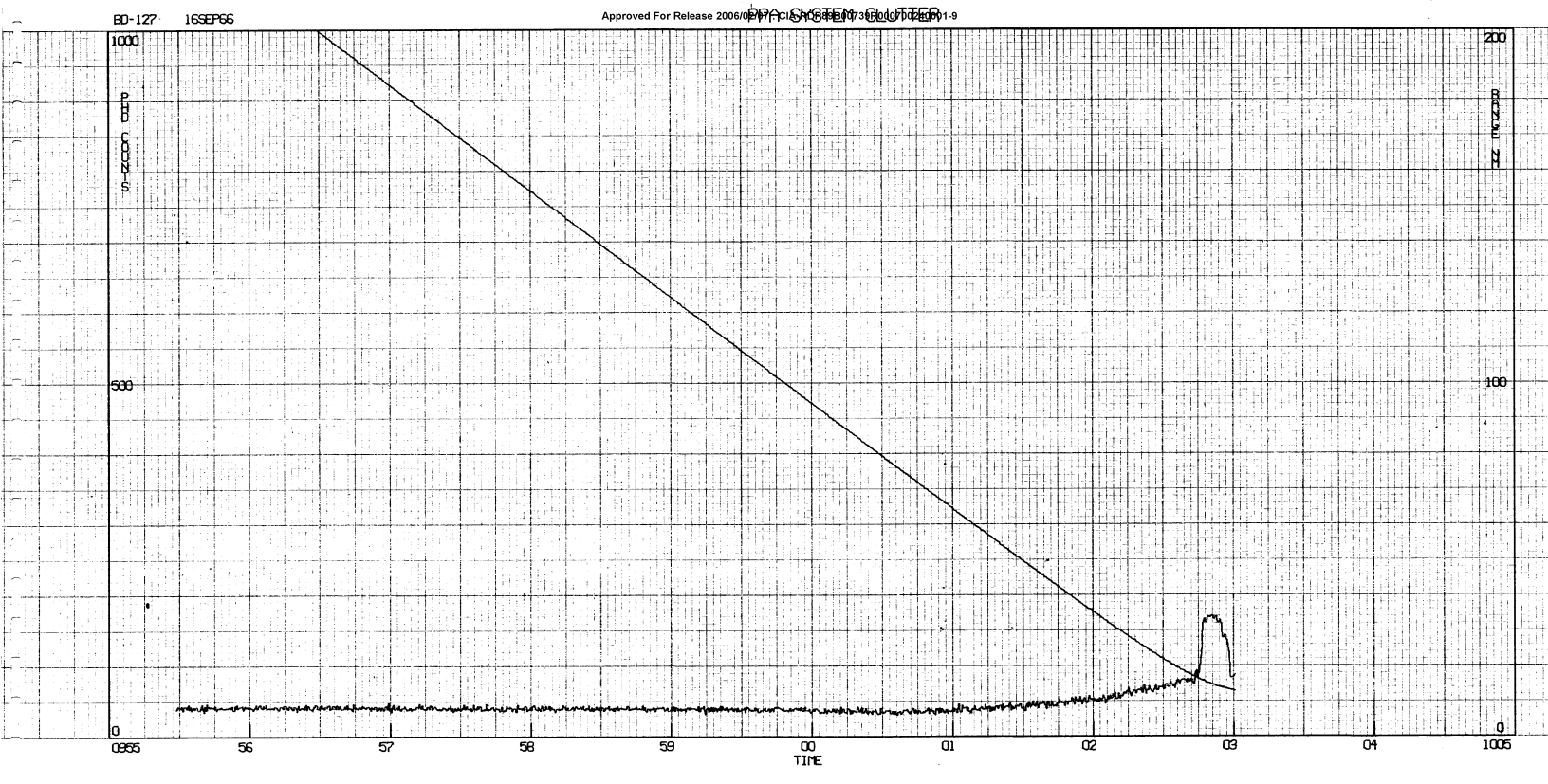

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25X1

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TEST REPORT BD-128

Copy 2 of 4

Date of Test:	16SEP66
Data Run:	16Sep66
Report Issued:	16Sep66
Aircraft:	127
Flight:	172

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SUMMARY OF TESTS

Test No. BD-128

	NIKE	[redacted]	MOD III	NAVY	PPA
RANGE TRACK	✓				
AZIMUTH TRACK	✓				
ELEVATION TRACK	✓				
[redacted] PHD					
[redacted]					
PHD		✓	✓	✓	✓

25X1

25X1

25X1

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INDEX

Test No. BD-128

- [x] Operating Log
- [x] Flight Plan (Azimuth Angle versus Ground Range)
- [ ] [redacted] versus Time Plot
- [x] Azimuth and Elevation versus Time Plot
- [ ] Depression Angle and Look Angle versus Time Plot
- [ ] Roll Angle, Pitch Angle and Heading Angle versus Time Plot
- [ ] [redacted] PHD and Range versus Time Plot for the [redacted] System (S-Band)
- [ ] [redacted] PHD and Range versus Time Plot for the MOD III System (C-Band)
- [x] PHD and Range versus Time Plot for the Navy System
- [x] PHD and Range versus Time Plot for the PPA System
- [x] PHD Clutter and Range versus Time Plot for the Navy System
- [x] PHD Clutter and Range versus Time Plot for the PPA System
- [x] PHD and Range versus Time Plot for the MOD III System
- [x] PHD and Range versus Time Plot for the [redacted] System

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25X1

To: [redacted]

Thru:

From:

Date: 16 Sept. 1965

Test Number: BD-128 (BD-II) SERIES

Subject: TEST ACTIVITIES THIS DATE

This memo contains 8 pages.

Other enclosures: Preflight Check List

Special notations:

Test Resume: Locked on beyond 200 m.i. All systems OK

Distribution:

Section "F" Log (1)
SPOD Files (1)

Other Data Analysis (1)

( )
( )
( )
( )
( )

[redacted]

25X1

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25X1

TEST SERIES: [redacted]

VEHICLE TEST ( )

EXTERNAL CAL. ( )

B. G. & G. TEST #: BD-128

DATA TAPE #:(AMP) BD-128-1A

DATA TAPE #:(DATA) BD-128-1B42A

AUDIO TAPE #: BD-128-A

DATE: 16 Sept. 66

T.D. [redacted]

A.T.

L.A.C. FLIGHT #: 172

L.A.C. TEST #: _____

25X1

I. SEQUENCE OF TEST:

A. FLY VEHICLE # 127 TO OBTAIN (1) EWS Data on [redacted]

25X1

(2) To obtain AR data on [redacted] Navy, PDA & Mod III

II. VEHICLE INFORMATION:

A. ALTITUDE: 80K

B. SPEED: 3.2

C. T.N.S. (✓) OR MA-1 ( )

25X1

D. FLIGHT PLAN: [redacted] route with an 8 mi. offset to the west. Inbounds 33 min. after T.O. on a bearing of 336°T.

III. EXTERNAL CALIBRATION:

A. C-47: ( )

B. Helicopter: ( )

C. MISC: ( )

SYSTEMS:

BENDIX: (✓) MOD III: (✓)

NAVY: (✓) PDA: (✓)

OTHER: ( )

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Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

DATE: 12 Sept 1962

TEST #: BD-128

IV. DRY RUN INFORMATION

A. NIKE PLUNGE CHECK:

NORMAL: _____

PLUNGED: _____

ERROR: _____ MILS

B. BENCH MARK CHECKS: (Nike, DSK, & MOD III)

DIFFERENTIALS "OFF", DSK SLAVED: NIKE/EYE: AZ: _____ EL: _____

DSK ANT: AZ: _____ EL: _____

MOD III SLAVED: NIKE EYE: AZ: _____ EL: _____

MOD III AZ: _____ EL: _____

C. TELEMETRY REFERENCE READINGS:

ROLL OCTAL: _____ INCLINOMETER #1 _____

PITCH OCTAL: _____ " " #2 _____

HEADING OCTAL: _____ " " #3 _____

MISC. OCTAL: _____ " " MISC: _____

TIME RECORDED:

DATA TAPES ON: _____ DATA TAPES OFF: _____

D. PRE-TEST ABNORMALITIES NOTED:

_____

_____

_____

_____

_____

_____

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Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

DATE: [illegible]

TEST #: 80-128

V. OPERATIONAL SYSTEMS STATISTICS:

25X1

A. [ ] SYSTEM TIME NOTED: _____

POWER OUT: _____ KW

FREQUENCY: _____ KMC

RECIEVER SENSITIVITY, MINUS _____ DBM

B. NAVY SYSTEM TIME NOTED: _____

POWER OUT: _____ KW

FREQUENCY: _____ MC

RECIEVER SENSITIVITY, MINUS _____ DBM

C. MOD III SYSTEM TIME NOTED: _____

POWER OUT: _____ KW

FREQUENCY: _____ KMC

RECIEVER SENSITIVITY, MINUS _____ DBM

D. PPA SYSTEM TIME NOTED: _____

POWER OUT: _____ KW

FREQUENCY: _____ MC

RECIEVER SENSITIVITY, MINUS _____ DBM

E. OTHER SYSTEMS

NIKE SYSTEM ( )

RANGER SYSTEM ( )

TAPE CENTER ( )

TELEMETRY ( )

MONOPULSE ( )

Q BAY SYSTEM ( )

BULL GEAR SLAVED ( )

MISC. _____

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DATA CONTROLS
SYSTEMS STATUS

DATE: 9-16-64

TEST # BD-12F

OPERATION/DATA

I. TAPE CENTER:

Ampex Recorder #I	Normal (X)	Abnormal ( )
Ampex Recorder #II	Normal (X)	Abnormal ( )

Remarks:

Datamec Recorder #I	Normal (X)	Abnormal ( )
Datamec Recorder #II	Normal (X)	Abnormal ( )

Remarks:

II. R. F. SYSTEMS:

25X1

[redacted]	Normal (X)	Abnormal ( )
Davy	Normal (X)	Abnormal ( )
MOD III	Normal (X)	Abnormal ( )
FPA	Normal (X)	Abnormal ( )
Other:	Normal ( )	Abnormal ( )

Remarks:

III. DIGITAL: B/C

[redacted] Encoders	EL/AZ	Normal (X)	Abnormal ( )
Nike Encoders	EL/AZ	Normal (X)	Abnormal ( )
Telemetry (Ground)		Normal ( )	Abnormal ( )
Telemetry (A-Bay)		Normal ( )	Abnormal ( )
Komputer		Normal (X)	Abnormal ( )

Remarks:

IV. MISC. REMARKS AND [illegible]:

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RF INTERNAL CALIBRATIONS

DATE: 16 Sept. 66

TEST # BD-128

ALL RANGES IN NAUTICAL MILES (✓) STATUTE MILES ( )

25X1

1209:30	# 1 RF Calibration		RANGE: 110 MILES.
1210:55	Calib. Normal;	(✓) Navy (✓) PPA (✓) Mod III (✓)	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
1211:30	# 2 RF Calibration		RANGE: 50 MILES.
1213:50	Calib. Normal;	(✓) Navy (✓) PPA (✓) Mod III (✓)	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
1214:22	# 3 RF Calibration		RANGE: 30 MILES.
1214:52	Calib. Normal;	(✓) Navy (✓) PPA (✓) Mod III (✓)	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
1217:15	# 4 RF Calibration		RANGE: 13 MILES.
1219:40	Calib. Normal;	(✓) Navy (✓) PPA (✓) Mod III (✓)	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
	# RF Calibration		RANGE: MILES.
	Calib. Normal;	( ) Navy ( ) PPA ( ) Mod III ( )	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
	# RF Calibration		RANGE: MILES.
	Calib. Normal;	( ) Navy ( ) PPA ( ) Mod III ( )	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;	( ) Navy ( ) PPA ( ) Mod III ( )	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;	( ) Navy ( ) PPA ( ) Mod III ( )	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;	( ) Navy ( ) PPA ( ) Mod III ( )	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;	( ) Navy ( ) PPA ( ) Mod III ( )	
	Calib. Abnormal	( ) Navy ( ) PPA ( ) Mod III ( )	

NOTE: Mod III calibrations indicate pwr. might have change some since system check before test.

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DATE 16 Sept. 66

TEST # BO-128

TEST INFORMATION 1117:00 Red Check OK

1122:16	Vehicle Airborne - acquired
1124:32	Nike in Auto Track 15 mi.
	T/M Tuned & Synced Data Tape On
1125:12	20 mi Range.
1127:24	40 " "
1127:54	Broke Lock.
~~1155:10~~	~~Nike Auto~~
~~1155:12~~	~~B~~
1155:25	Data tapes on.
1155:52	DSK slaved - Nike Auto
1156:48	200 mi Range
1157:08	190 " "
1157:28	180 " "
1157:49	170 " "
1158:11	160 " "
1158:31	150 " "
1158:53	140 " "
1159:11	130 " "
1159:31	120 " "
1159:51	110 " "
1200:11	100 " "
1200:31	90 " "

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TEST INFORMATION (CONT'D)

1200:54	80 mi Range
1201:13	70 " "
1201:24	C-Band return
1201:31	60 mi Range
1201:49	[redacted] return
1201:53	PPM Return
1201:55	50 mi Range
1202:14	40 " "
1202:40	30 " "
1203:07	20 " "
1203:31	15 " " C.P.A.
1203:58	20 " "
1204:23	Lost Lock 30 mi.
1205:05	Data Tapes off.
Note	Article passed close to another vehicle about 70 mi. (statute) out.
1208:30	Started internal calibrations
1219:40	Completed internal Calibrations
	TEST COMPLETED

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PREFLIGHT CHECK LIST

Date 9/16/80

25X1

MISSION DATA

VEHICLE			COMMUNICATIONS/IFF			ROUTE								
A/C Number	Flight Number	Call Sign	Channel	Mode	Code	Name	Purpose	To Time	D.T.G.	Look Angle	Time	Alt.	Speed	ARCT
129	172	D45	86	3/X	44		FWS	1130	200	336	TO + 33	80K	3.2	N/A
3X+11						8Mi WEST								

Special Operations Of Flight: Will Call - 200 NM.

No Cover Times

SYSTEM DATA

CONFIGURATION											COMPUTER PRINTOUT	
BENDIX		NAVY		MOD III		PPA		T/M	NIKE		Normal	Special
Xmit	Rec	Xmit	Rec	Xmit	Rec	Xmit	Rec		Beac	Skin		
✓	✓	✓	✓	✓	✓	✓	✓	N/A	✓			PRINT OUT ON ALL

AUXILIARY EQUIPMENT:

Super Kit: NO

Bruce Dog: ONLY

I.R.: NO

Others: NO

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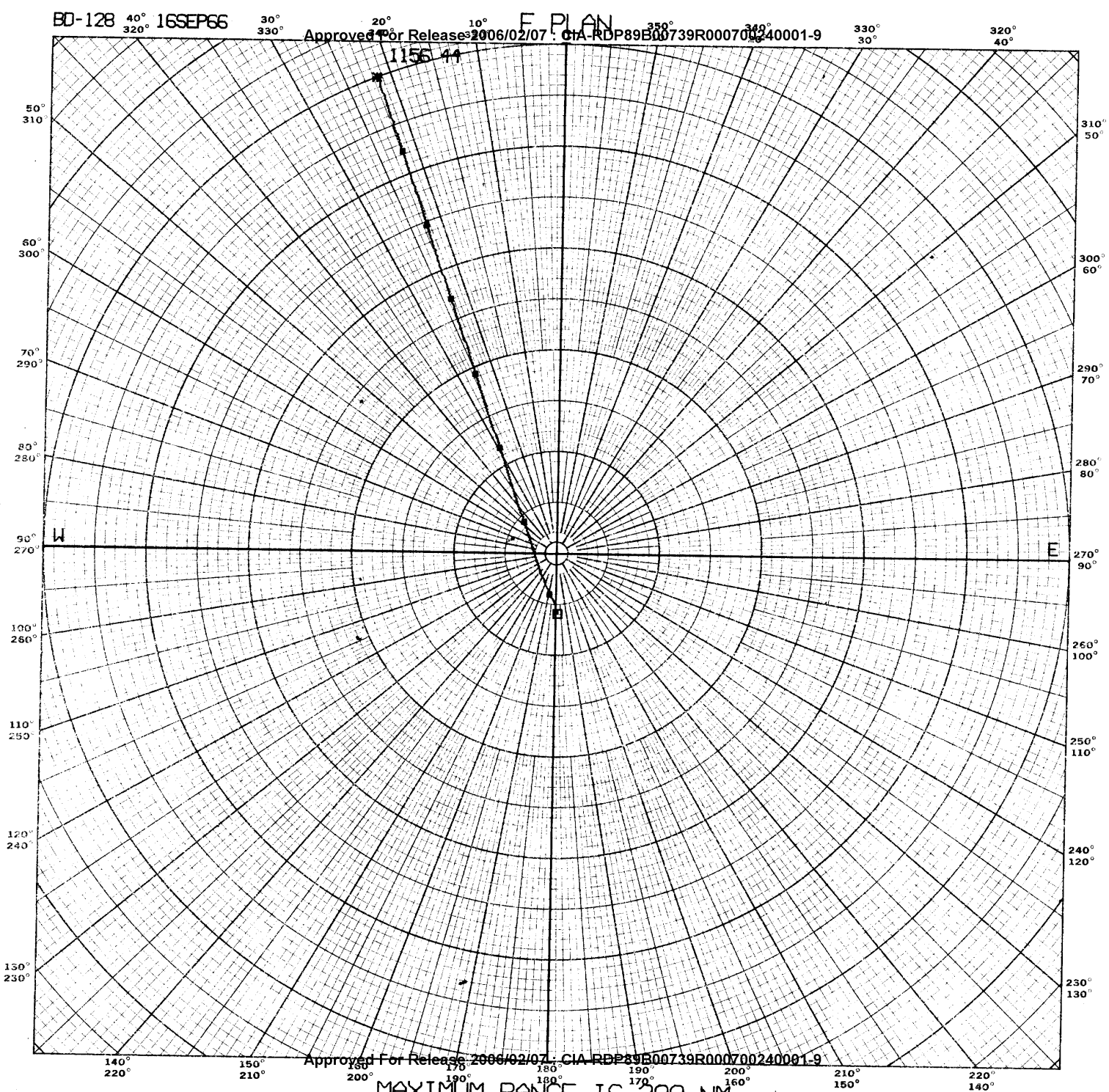

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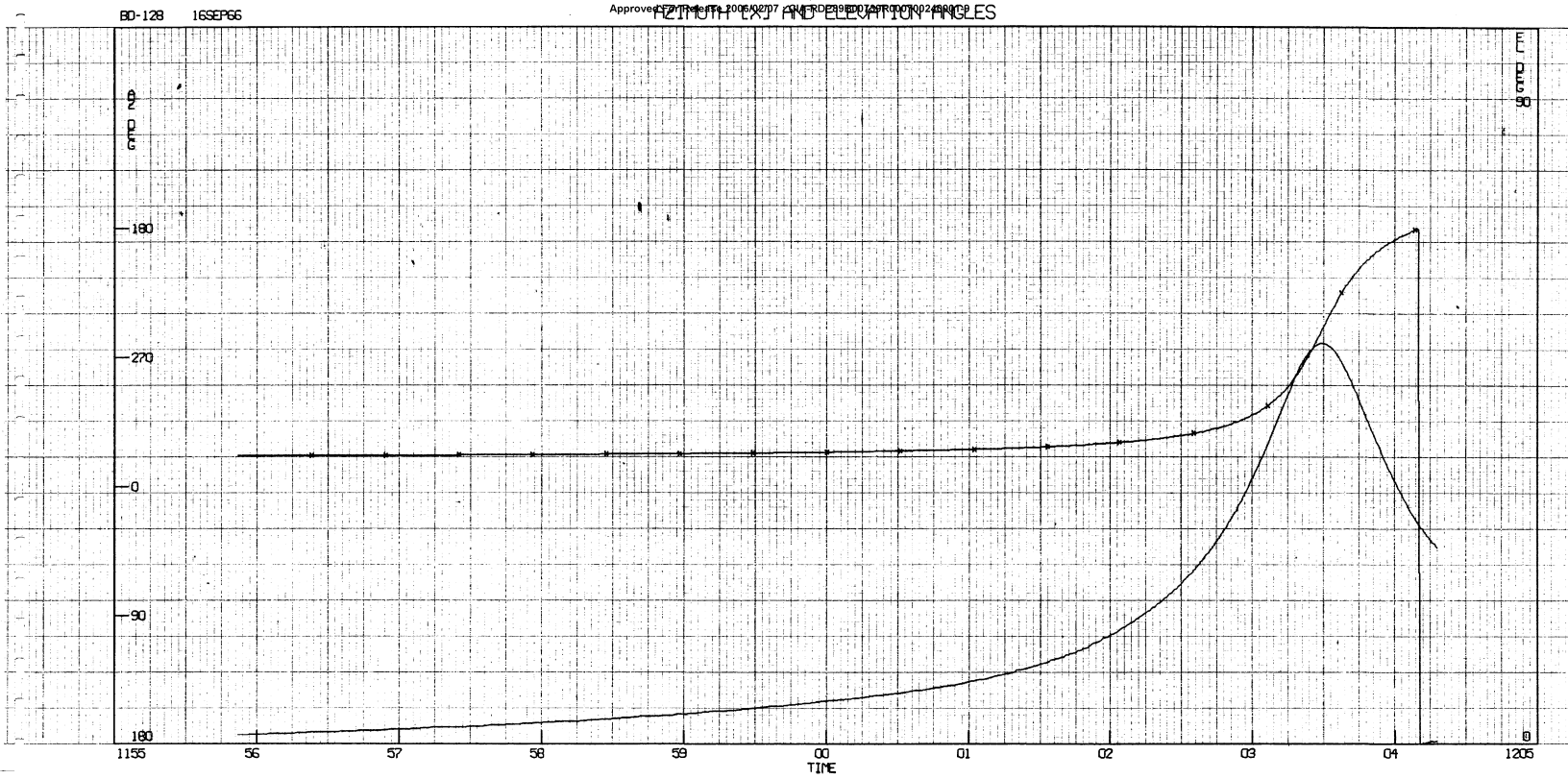
BD-128 16SEPG6

AZIMUTH [AZ] AND ELEVATION ANGLES



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25X1

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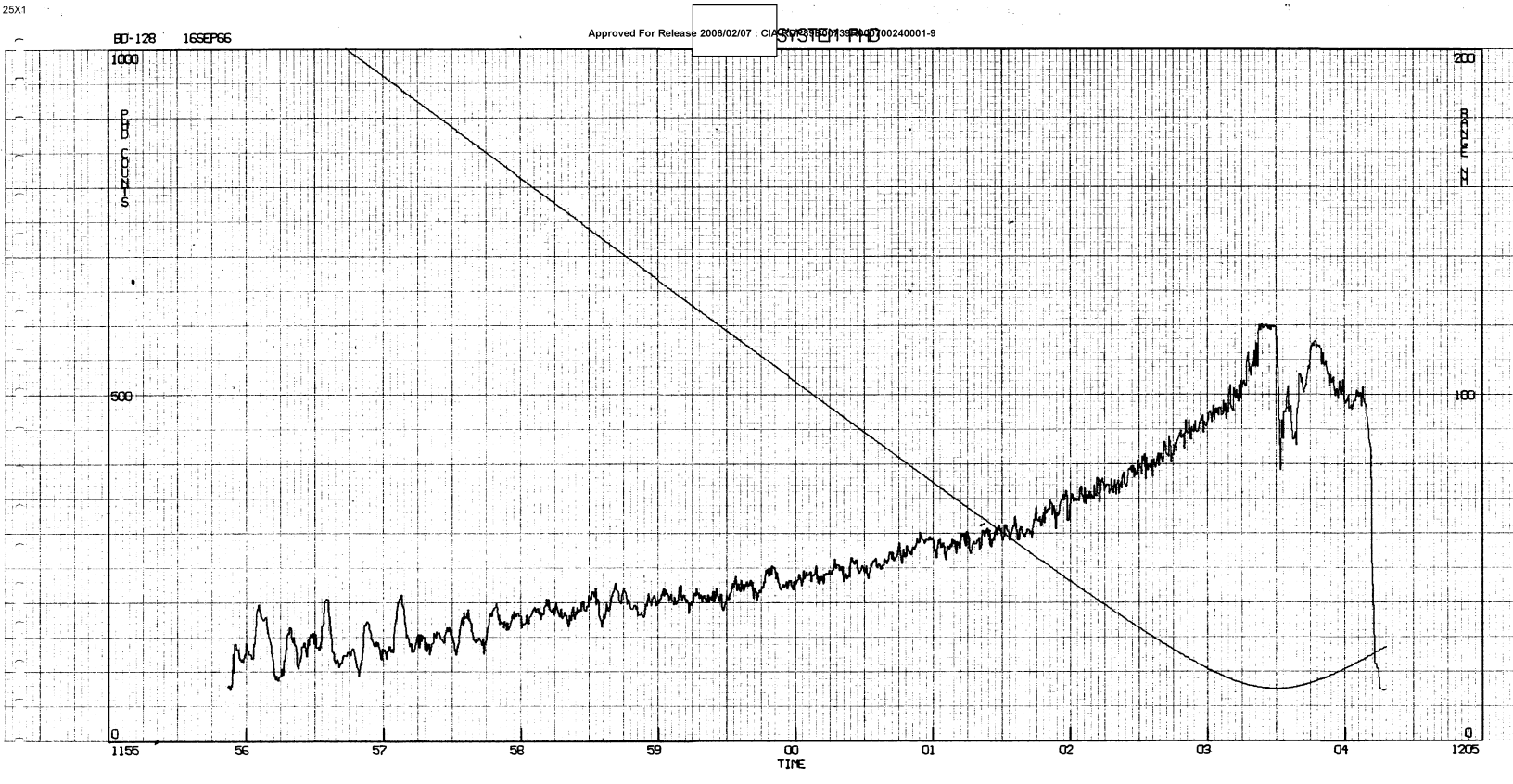

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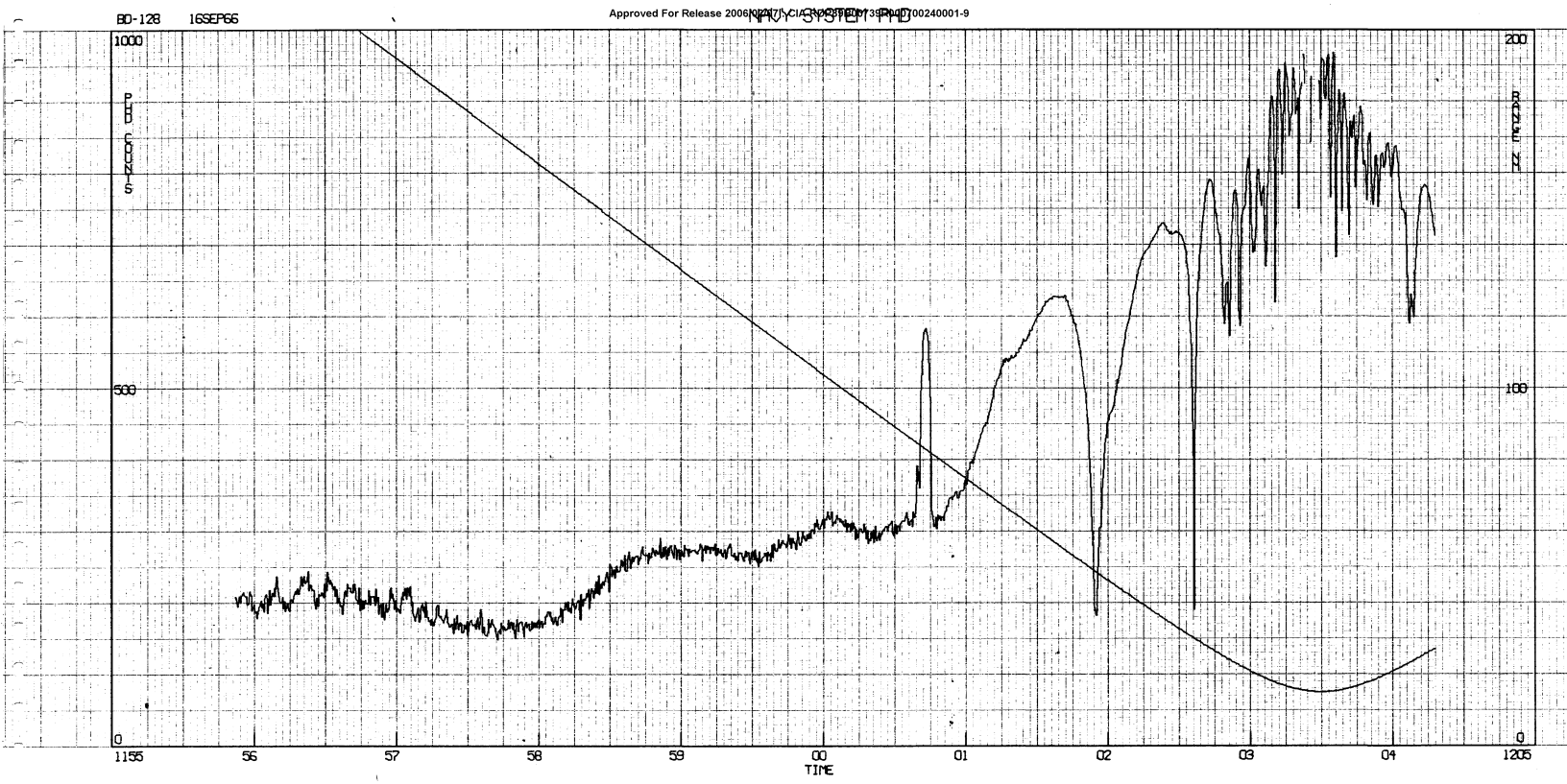

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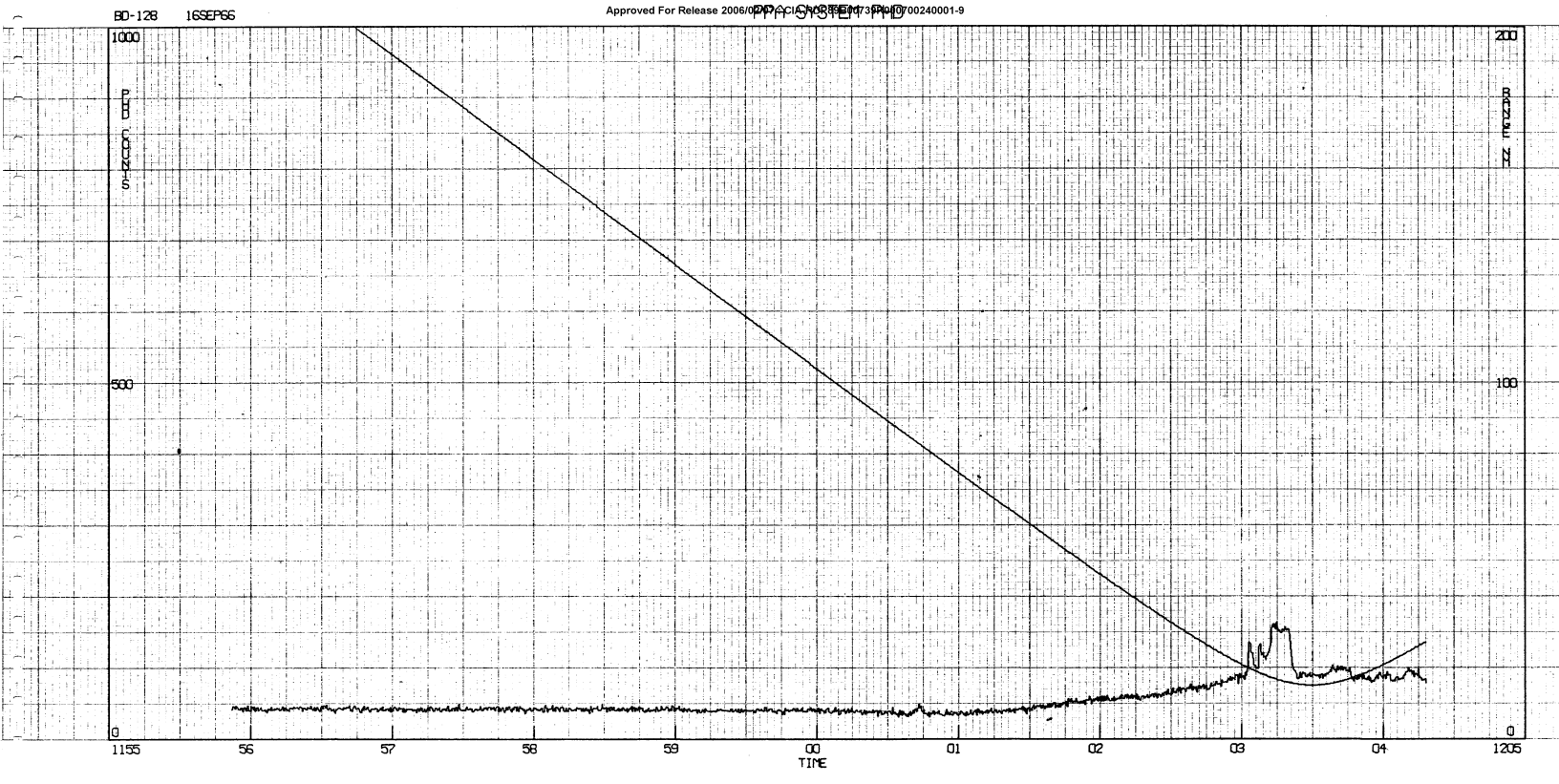

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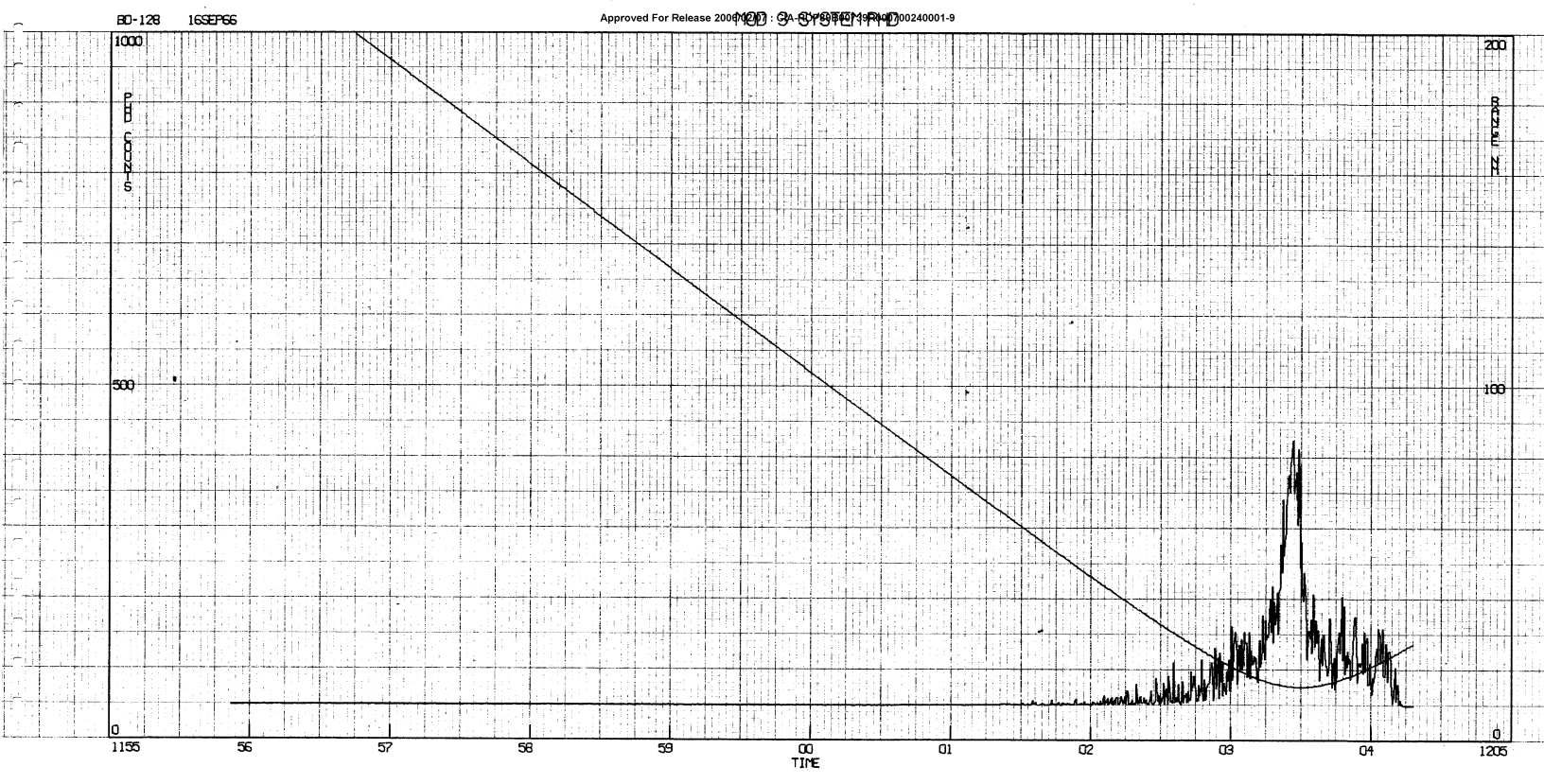

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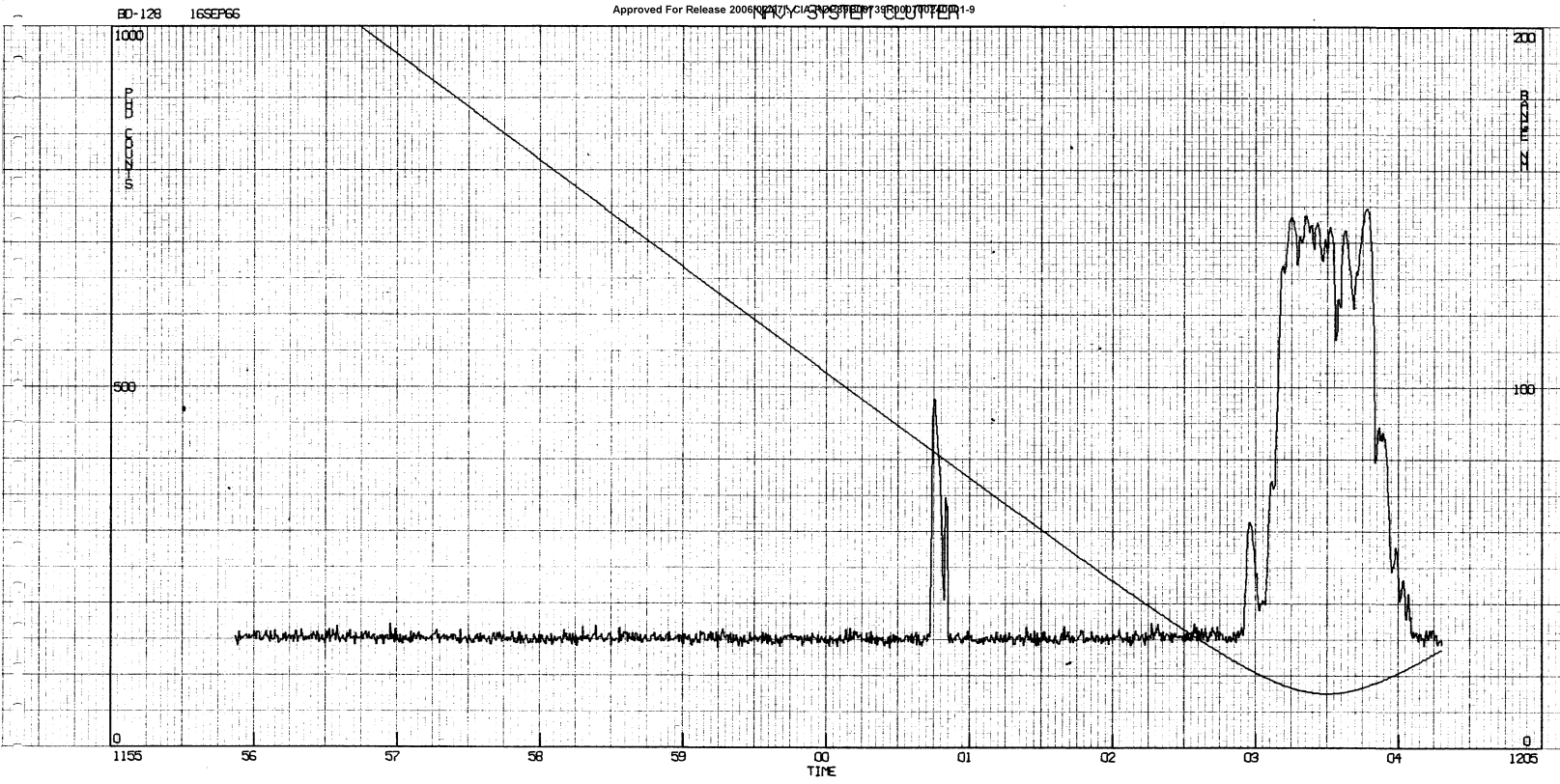

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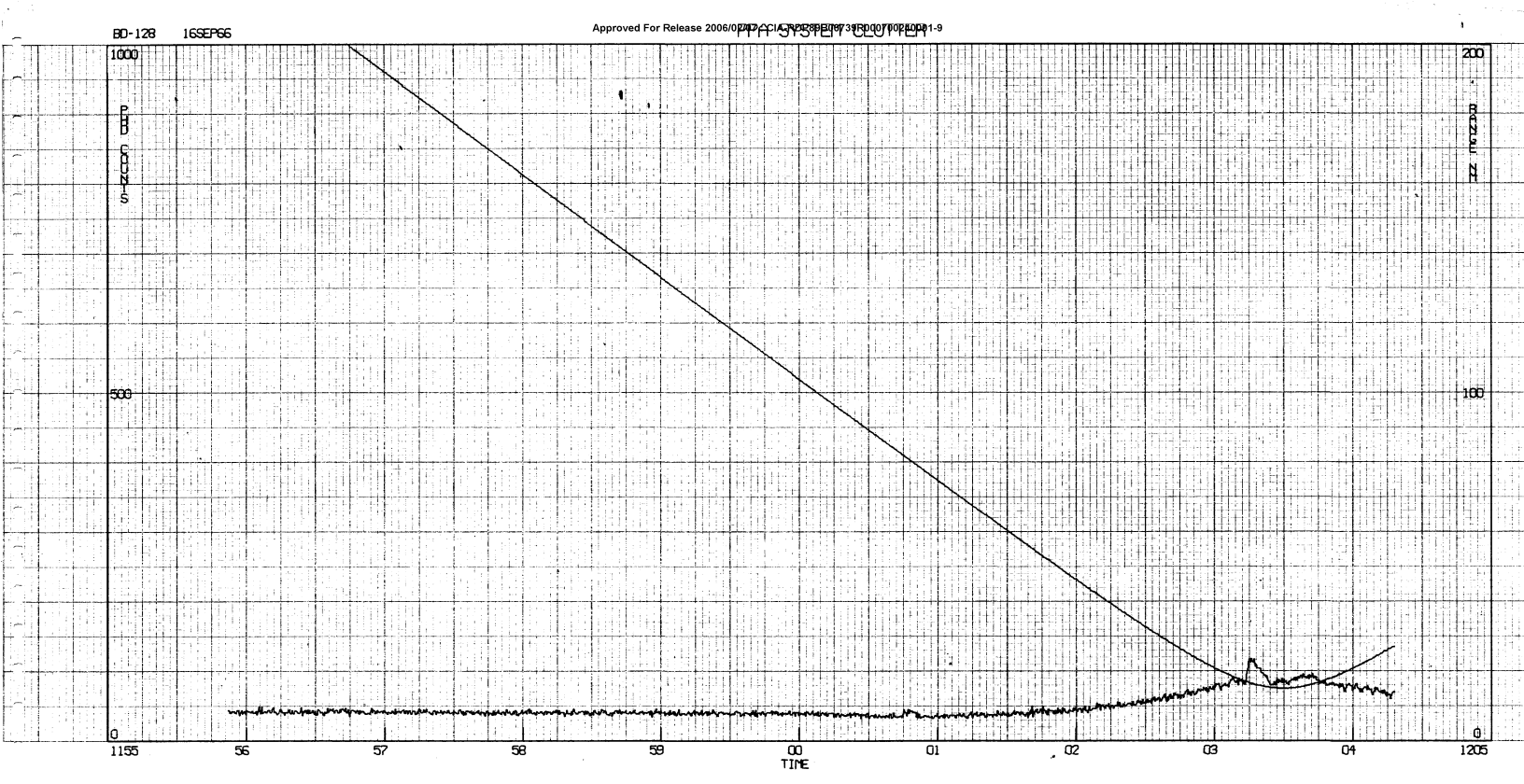

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25X1

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TEST REPORT BD-129

Copy 2 of 4

Date of Test: 20 Sep 66

Data Run: 20 Sep 66

Report Issued: 20 Sep 66

Aircraft: 130

Flight: 137

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

SUMMARY OF TESTS

Test No. BD-129

	NIKE	[redacted]	MOD III	NAVY	PPA
RANGE TRACK	✓				
AZIMUTH TRACK	✓				
ELEVATION TRACK	✓				
[redacted] - PHD		✓	✓		
[redacted]					
PHO				✓	✓

25X1

25X1

25X1

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Test No. BD-129

- [✓] Operating Log
- [✓] Flight Plan (Azimuth Angle versus Ground Range)
- [ ] [ ] versus Time Plot
- [✓] Azimuth and Elevation versus Time Plot
- [ ] Depression Angle and Look Angle versus Time Plot
- [ ] Roll Angle, Pitch Angle and Heading Angle versus Time Plot
- [✓] [ ] PHD and Range versus Time Plot for the [ ] System (S-Band)
- [✓] [ ] PHD and Range versus Time Plot for the MOD III System (C-Band)
- [✓] PHD and Range versus Time Plot for the Navy System
- [✓] PHD and Range versus Time Plot for the PPA System
- [✓] PHD Clutter and Range versus Time Plot for the Navy System
- [✓] PHD Clutter and Range versus Time Plot for the PPA System
- [ ] PHD and Range versus Time Plot for the MOD III System
- [ ]

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Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

25X1

To:

Thru:

From:

Date: 20 Sept. 1966

Test Number: BD-129

Subject: TEST ACTIVITIES THIS DATE

This memo contains 7 pages.

Other enclosures: 1 COPY PRE FLIGHT CHECK LIST

Special notations: USE PPA CAL'S FROM BD 128.

Test Resume: NIKE AUTO AT 252 MI.
S-TC BAND RETURNS AT 70 MILES.
NO SYSTEM MALFUNCTIONS.

Distribution:

Section "T" Log (1)
SPOD Files (1)

Other: Data Analysis (1)

( )
( )
( )
( )
( )

25X1

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

25X1

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

[redacted]

DATE: 20 Sept 1965

T.O.

A.T.D

25X1

G. & G. TEST #: BD-129

DATA TAPE #:(AMP) BD-129-2A

DATA TAPE #:(DATA) BD-129-2A

L.A.C. FLIGHT #: 132

MULTI-TAPE #: BD-129-A

I.A.C. TEST #:

I. SEQUENCE OF TEST:

A. FLY VEHICLE # 130 TO OBTAIN (1) EWS data on [redacted] 25X1

25X1 Mod. III, [redacted] & [redacted] 25X1

(2) HR-data on Navy & PPA

II. VEHICLE INFORMATION:

A. ALTITUDE: 80K

B. SPEED: 3.2

C. I.N.S. (✓) OR MA-1 ( )

25X1 D. FLIGHT PLAN: [redacted] route - Inbound from a bearing of 336° T, 33 min. after take off

III. EXTERNAL CALIBRATION:

A. C-47: ( )

B. Helicopter: ( )

C. MISC: ( )

SYSTEMS:

BENDIX: (✓) MOD III: (✓)

NAVY: (✓) PPA: (✓)

OTHER: ( )

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Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

Date: 10 Sept 1968

BD-129

DRY RUN INFORMATION

A. NIKE PLUNGE CHECK:

NORMAL: 4149.0

PLUNGED: 0948.9

ERROR: _____ MILS

B. BENCH MARK CHECKS: (Nike, DSK, & MOD III)

DIFFERENTALS "OFF", DSK SLAVED: NIKE/EYE: AZ: 0 EL: 0

DSK ANT: AZ: 0 EL: ½ up

MOD III SLAVED: NIKE EYE: AZ: 0 EL: 0

MOD III AZ: 2 dn EL: 2 rt

C. TELEMETRY REFERENCE READINGS:

ROLL OCTAL: _____ INCLINOMETER #1 _____

PITCH OCTAL: _____ " " #2 _____

HEADING OCTAL: _____ " " #3 _____

MISC. OCTAL: _____ " " MISC: _____

TIME RECORDED:

DATA TAPES ON: _____ DATA TAPES OFF: _____

D. PRE-TEST ABNORMALITIES NOTED:

_____

_____

_____

_____

_____

_____

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Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

DATE: 23 Sept 1966

TEST #: 80-129

V. OPERATIONAL SYSTEMS STATISTICS:

25X1

A. [ ] SYSTEM TIME NOTED: 14:28

POWER OUT: _____ KW

FREQUENCY: ~~3.66~~ 2.81 - 3.16 KMC Rec. Only

RECIEVER SENSITIVITY, MINUS _____ DBM

B. NAVY SYSTEM TIME NOTED: 14:28

POWER OUT: 250 KW

FREQUENCY: 173 MC

RECIEVER SENSITIVITY, MINUS 115 DBM

C. MOD III SYSTEM TIME NOTED: 14:28

POWER OUT: _____ KW

FREQUENCY: 4.85 - 5.15 KMC Rec. only

RECIEVER SENSITIVITY, MINUS -92 DBM

D. PPA SYSTEM TIME NOTED: _____

POWER OUT: _____ KW

FREQUENCY: _____ MC

RECIEVER SENSITIVITY, MINUS _____ DBM

E. OTHER SYSTEMS

MIKE SYSTEM (✓)

RANGER SYSTEM (✓)

TAPE CENTER (✓)

TELEMETRY ( )

MONOPULSE ( )

Q BAY SYSTEM ( )

BULL GEAR SLAVED (✓)

MISC. Q.K and R.D.

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

DATA CONTROLS
SYSTEMS STATUS

DATE: 20 Sept. 65

TEST # BD-129

OPERATIONAL STATUS

I. TAPE CENTER:

Ampex Recorder #I	Normal (X)	Abnormal ( )
Ampex Recorder #II	Normal (X)	Abnormal ( )

Remarks: _____

Datamec Recorder #I	Normal (X)	Abnormal ( )
Datamec Recorder #II	Normal (X)	Abnormal ( )

Remarks: _____

II. R. F. SYSTEMS:

25X1

[redacted]	Normal (X) cw	Abnormal ( )
Navy	Normal (X)	Abnormal ( )
MOD III	Normal (X) aw	Abnormal ( )
PPA	Normal (X)	Abnormal ( )
Other: _____	Normal ( )	Abnormal ( )

Remarks: _____

III. DIGITAL:

DSK Encoders	EL/AZ	Normal (X)	Abnormal ( )
Nike Encoders	EL/AZ	Normal (X)	Abnormal ( )
Telemetry (Ground)		Normal ( )	Abnormal ( )
Telemetry (Q-Bay)		Normal ( )	Abnormal ( )
Ranger		Normal (X)	Abnormal ( )

Remarks: _____

IV. MISC. REMARKS AND INFORMATION:

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DATE 3 Oct 1966

TEST # RD-129

TEST INFORMATION 14:48:15 Redcheck complete, O.K

14:53:25 Lift OFF

14:54:30 Nike Auto Track 6 miles

14:55:30 Last Lock

14:55:37 Auto Track 14 miles

14:59:00 Brokelock

/

15:27:42 Vehicle Airborne - acquired

15:27:59 Nike in Auto Track 257 Miles

15:28:15 T/M Tuned & Synced Data Tape On

15:28:35 DSK Slaved.

15:29:46 S Band system check

15:29:48 S band off

15:31:21 150 miles

15:33:01 100 miles

15:32:59 S & C band 70 miles

15:33:25 PPM Video

15:34:39 50 miles

25X1 15:35:50 [redacted] 12 miles

15:36:15 14 miles CPA

15:36:17 Last lock

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DATE: 29 Sept 1966

TEST # 02-129

ALL RANGES IN NAUTICAL MILES ( ) STATUTE MILES ( )

25X1

14:30:55 # 1 RF Calibration — RANGE: 110 MILES.

14:33:16 Calib. Normal; ( ) Navy (✓) PPA ( ) Mod III ( )
Calib. Abnorma ( ) Navy ( ) PPA ( ) Mod III ( )

14:34:23 # 2 RF Calibration — RANGE: 50 MILES.

14:35:12 Calib. Normal; ( ) Navy (✓) PPA ( ) Mod III ( )
Calib. Abnorma ( ) Navy (✓) PPA ( ) Mod III ( )

14:39:33 # 3 RF Calibration — RANGE: 110 MILES.

14:41:50 Calib. Normal; ( ) Navy (✓) PPA ( ) Mod III ( )
Calib. Abnorma ( ) Navy ( ) PPA ( ) Mod III ( )

14:42:10 # 4 RF Calibration — RANGE: 50 MILES.

14:44:25 Calib. Normal; ( ) Navy (✓) PPA ( ) Mod III ( )
Calib. Abnorma ( ) Navy ( ) PPA ( ) Mod III ( )

14:44:50 # 5 RF Calibration — RANGE: 30 MILES.

14:42:12 Calib. Normal; ( ) Navy (✓) PPA ( ) Mod III ( )
Calib. Abnorma ( ) Navy ( ) PPA ( ) Mod III ( )

14:42:35 # 6 RF Calibration — RANGE: 13 MILES.

14:50:00 Calib. Normal; ( ) Navy (✓) PPA ( ) Mod III ( )
Calib. Abnorma ( ) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration — RANGE: _____ MILES.

_____ Calib. Normal; ( ) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal ( ) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration — RANGE: _____ MILES.

_____ Calib. Normal; ( ) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal ( ) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration — RANGE: _____ MILES.

_____ Calib. Normal; ( ) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal ( ) Navy ( ) PPA ( ) Mod III ( )

_____ # ___ RF Calibration — RANGE: _____ MILES.

_____ Calib. Normal; ( ) Navy ( ) PPA ( ) Mod III ( )
Calib. Abnormal ( ) Navy ( ) PPA ( ) Mod III ( )

NOTE: _____

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PREFLIGHT CHECK LIST

Date 9/20/66

25X1

MISSION DATA

VEHICLE			COMMUNICATIONS/IFF			ROUTE								
A/C Number	Flight Number	Call Sign	Channel	Mode	Code	Name	Purpose	To Time	D.T.G.	Look Angle	Time	Alt.	Speed	ARCT
130	137	0-27	286	X-3	99		EWS	1500	200	336	TO	805	3.2	NA
							FCF				+ 33			
3X –	16													

Special Operations Of Flight Will CALL NUGGET ON CH-6-

TUNNEL – 200' & ABOVE NO COVER TIMES

SYSTEM DATA

CONFIGURATION											COMPUTER PRINTOUT	
BENDIX		NAV		MOD III		PPA		T/M	NIKE			
Xmit	Rec	Xmit	Rec	Xmit	Rec	Xmit	Rec		Beac	Skin	Normal	Special
	✓	✓	✓		✓	✓	✓	NA	✓		✓	

AUXILIARY EQUIPMENT:

Quick Kit ✓

Crew Dog ✓

.R. No

Others

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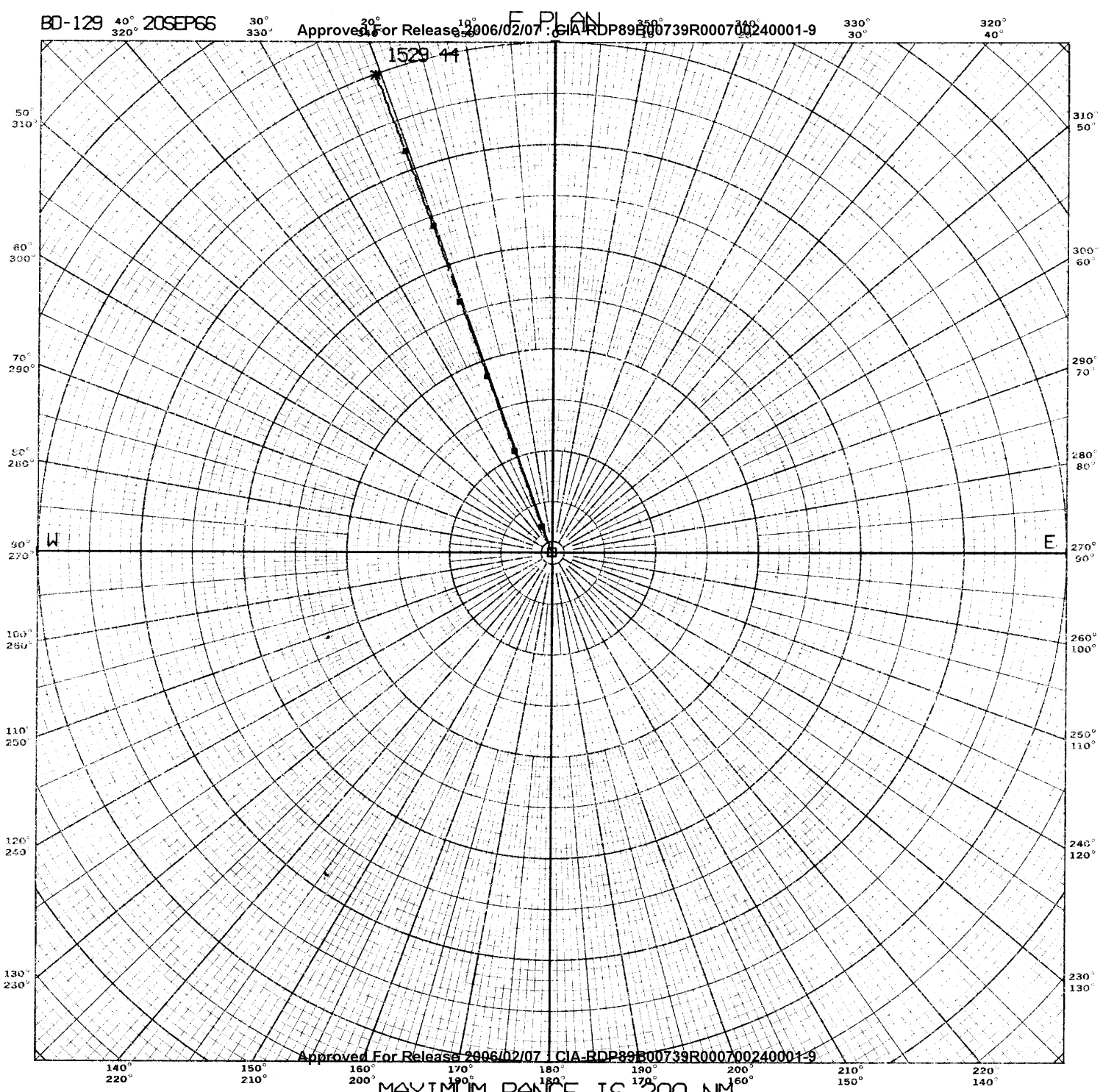

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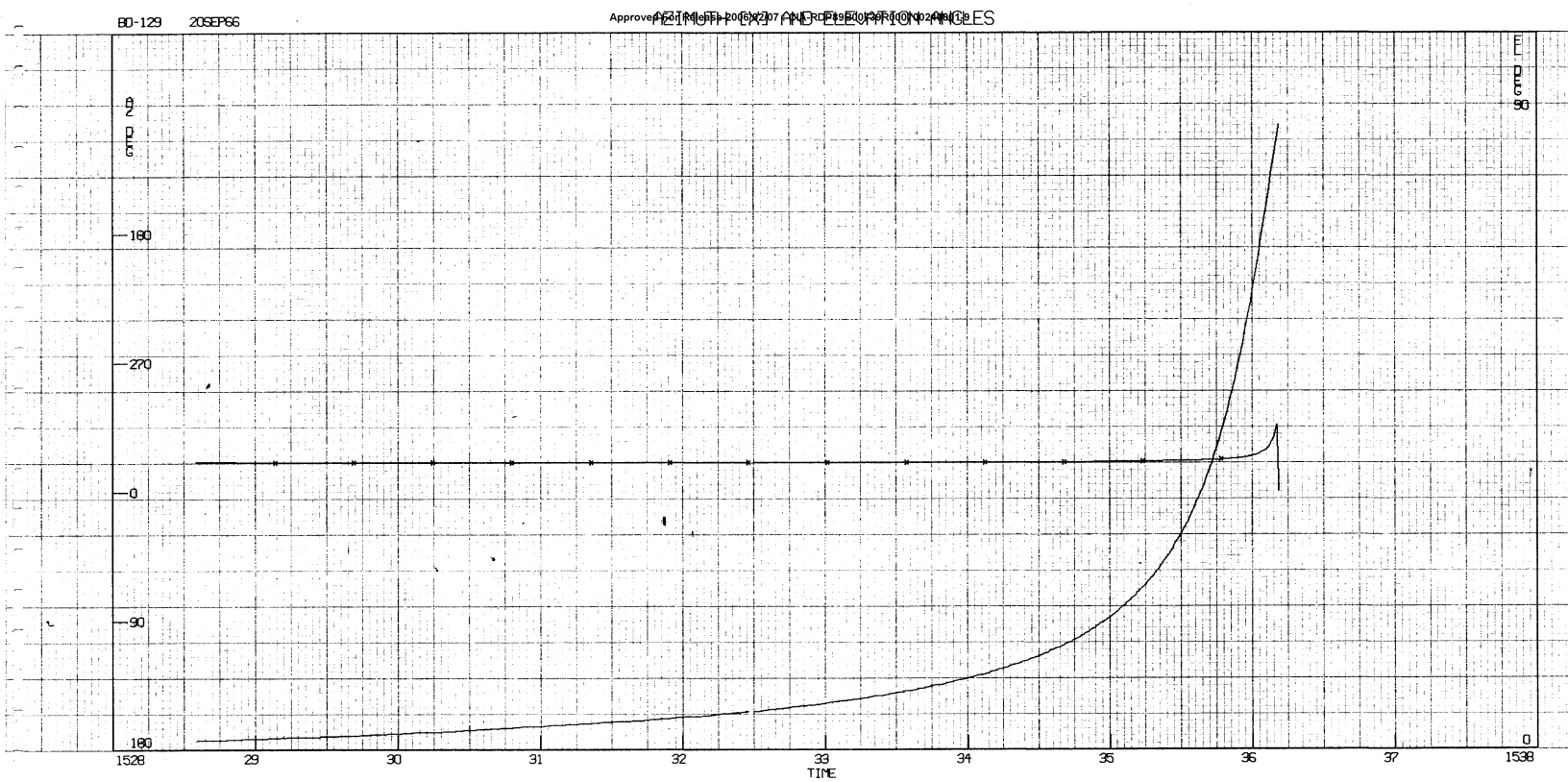

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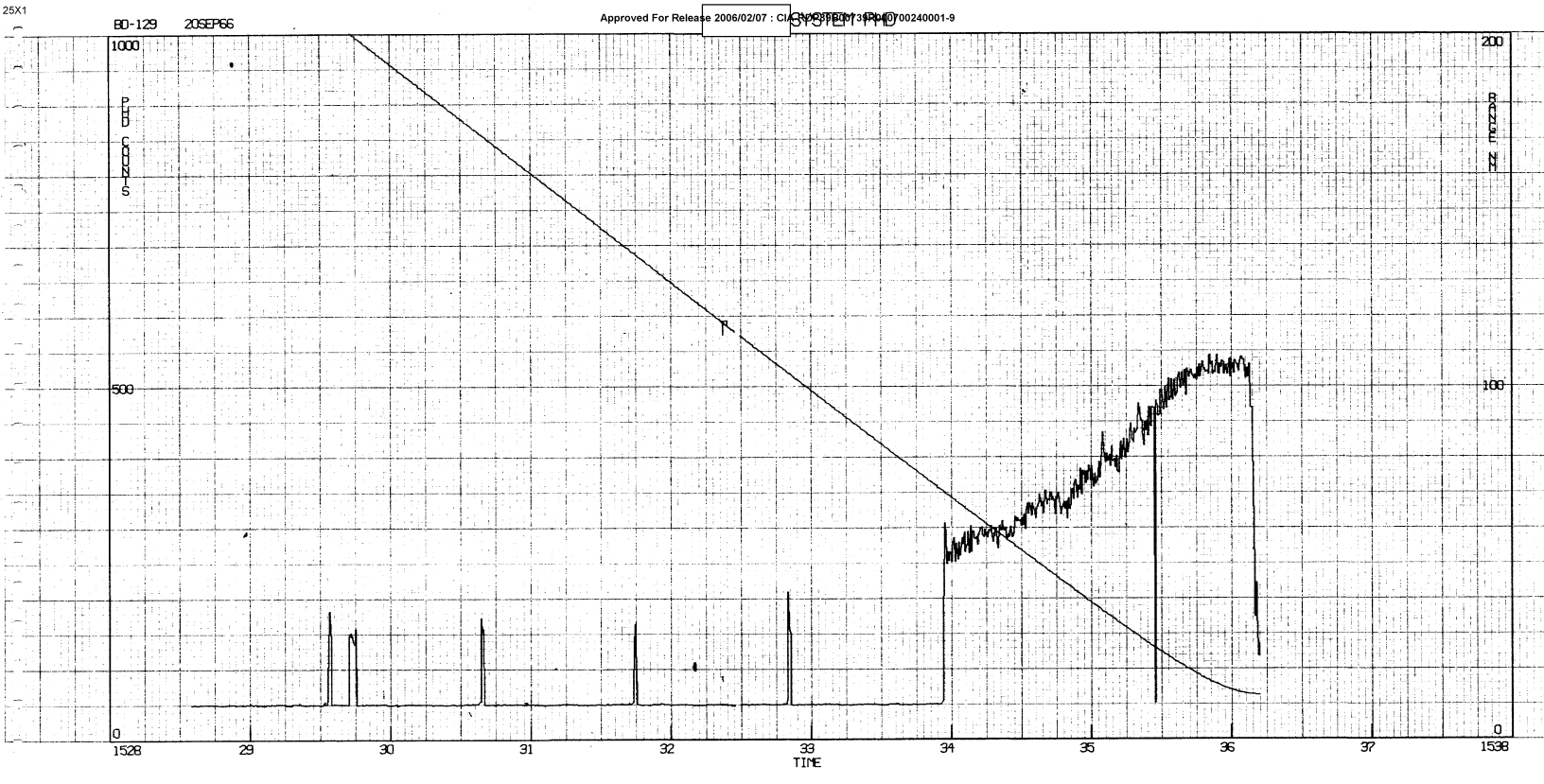

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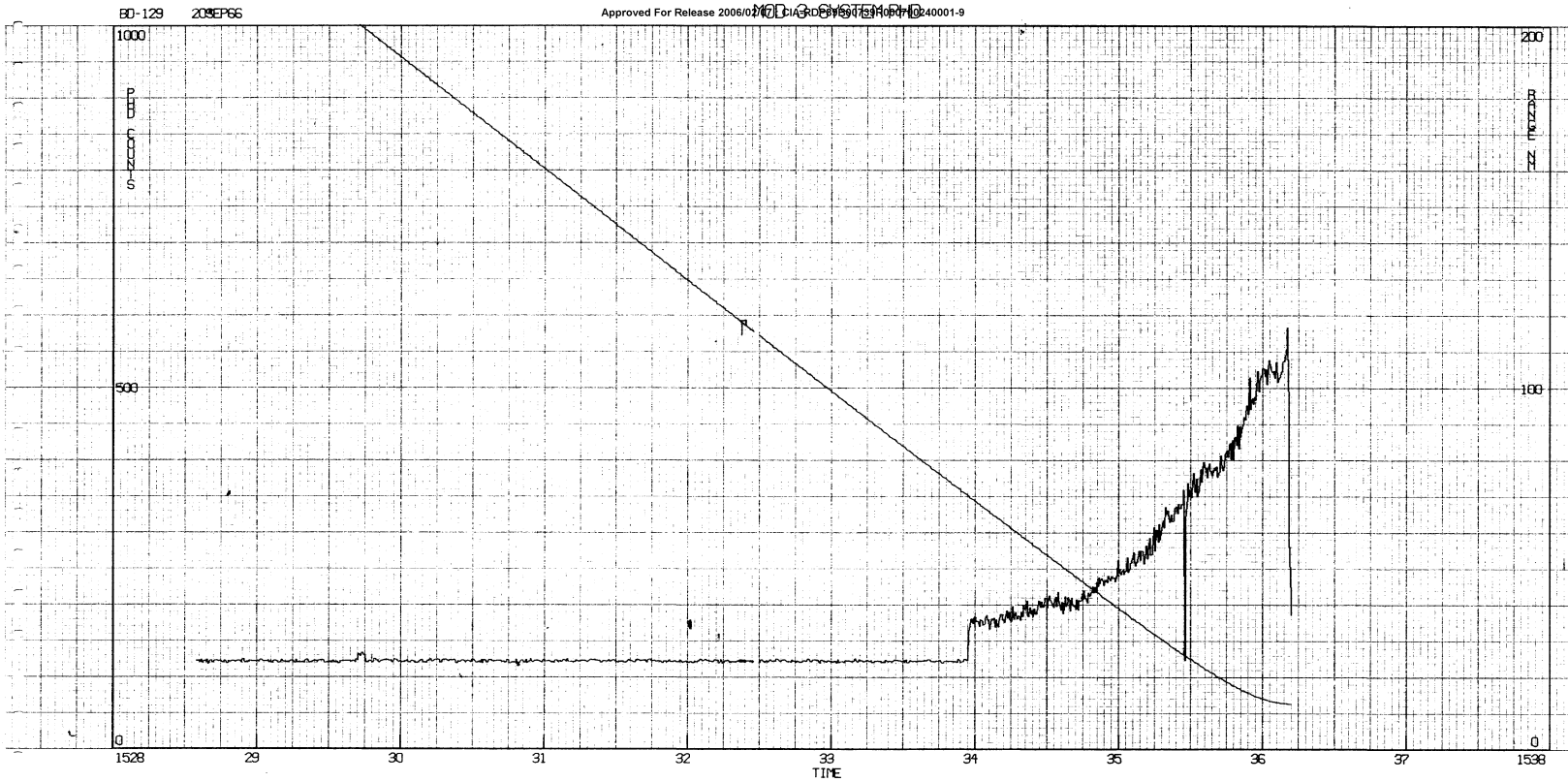

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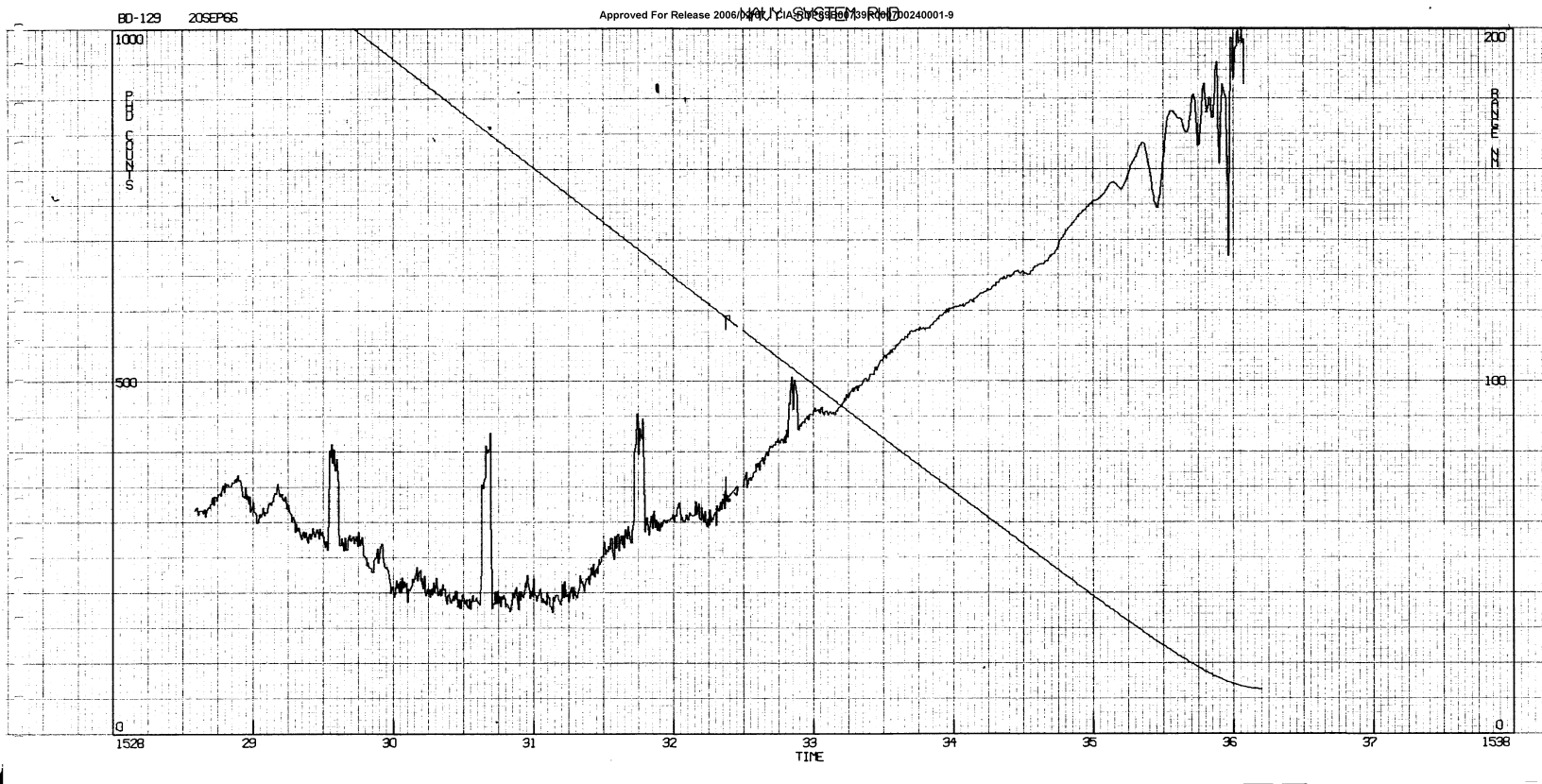

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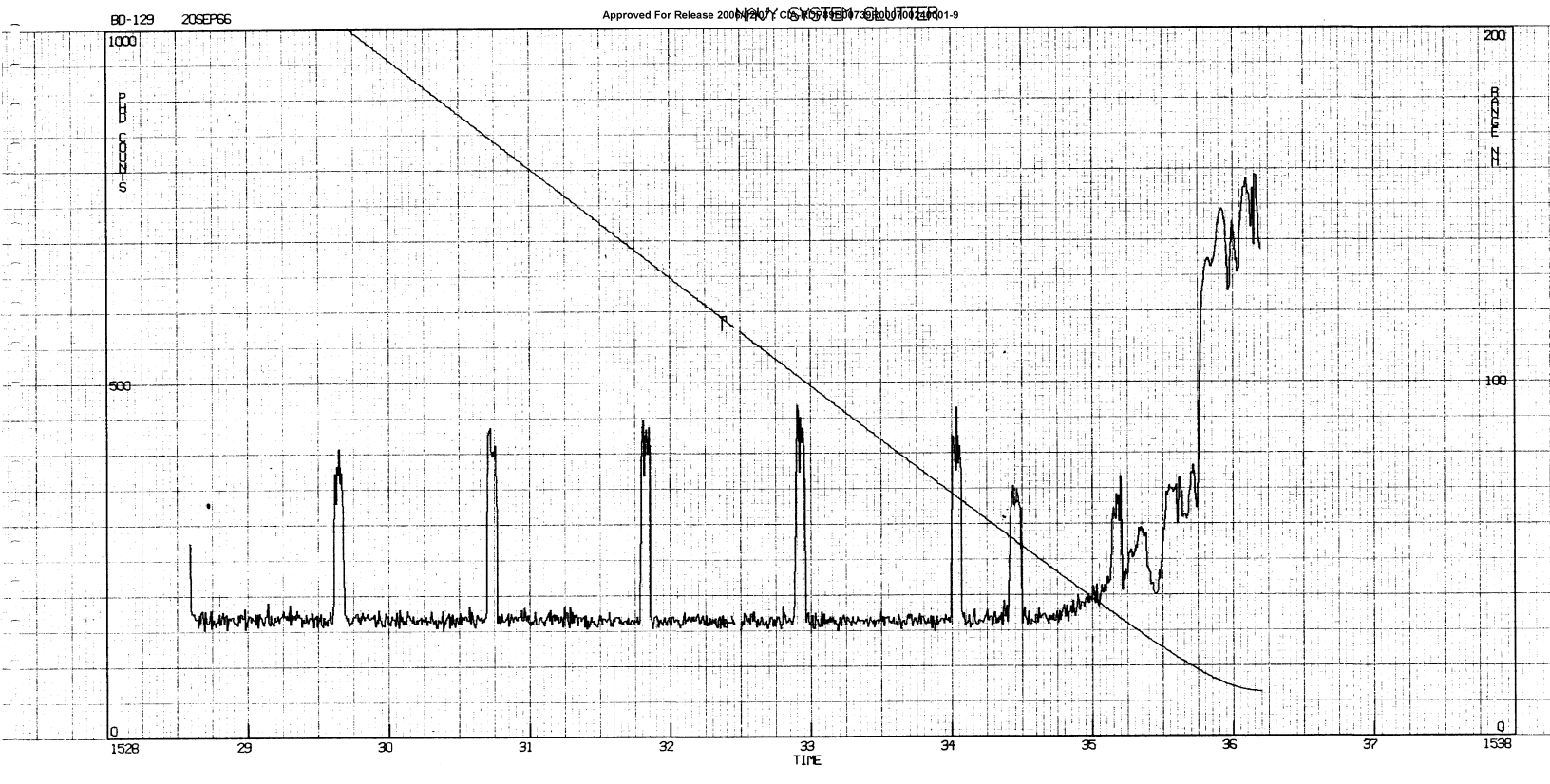

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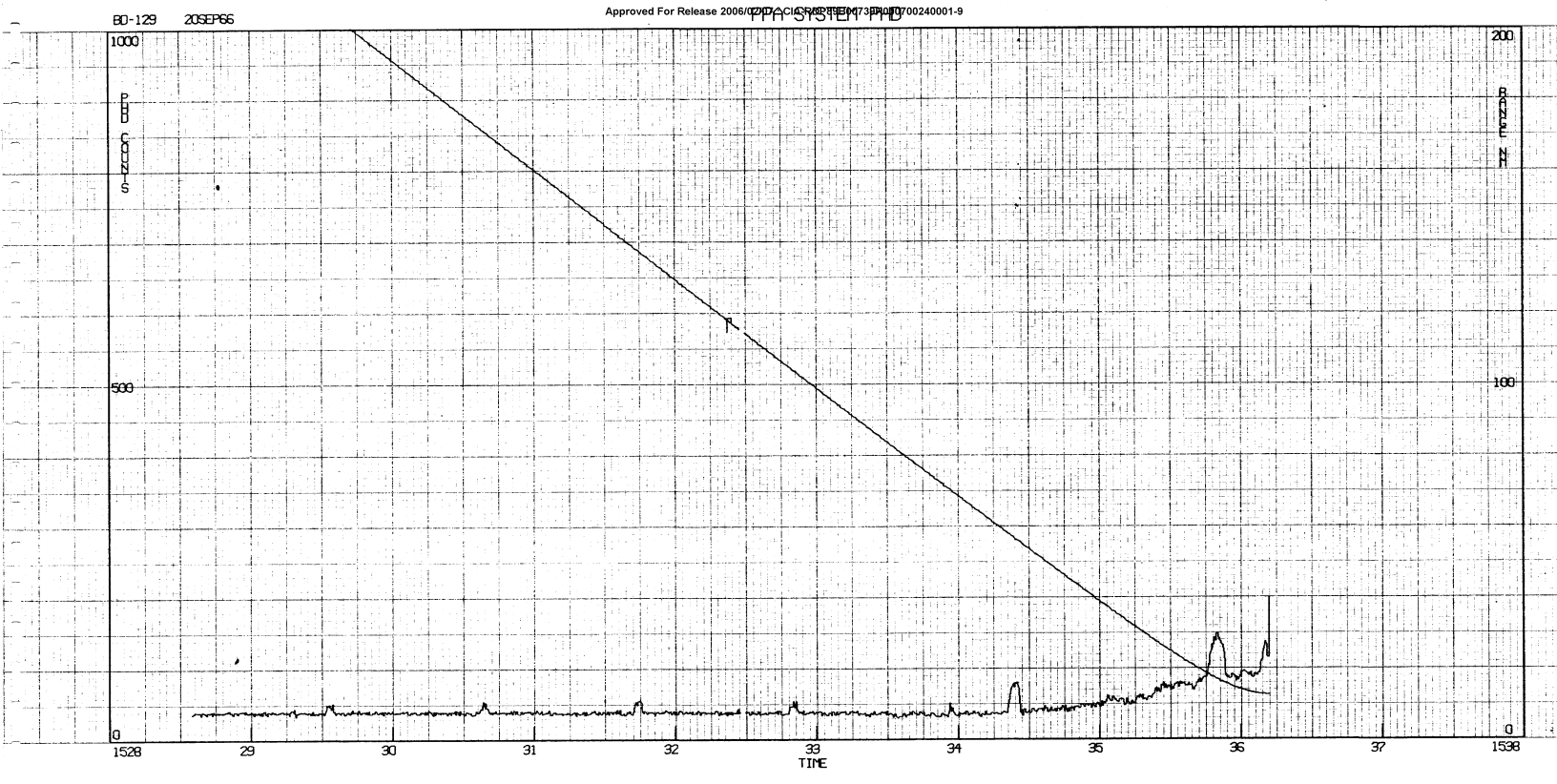

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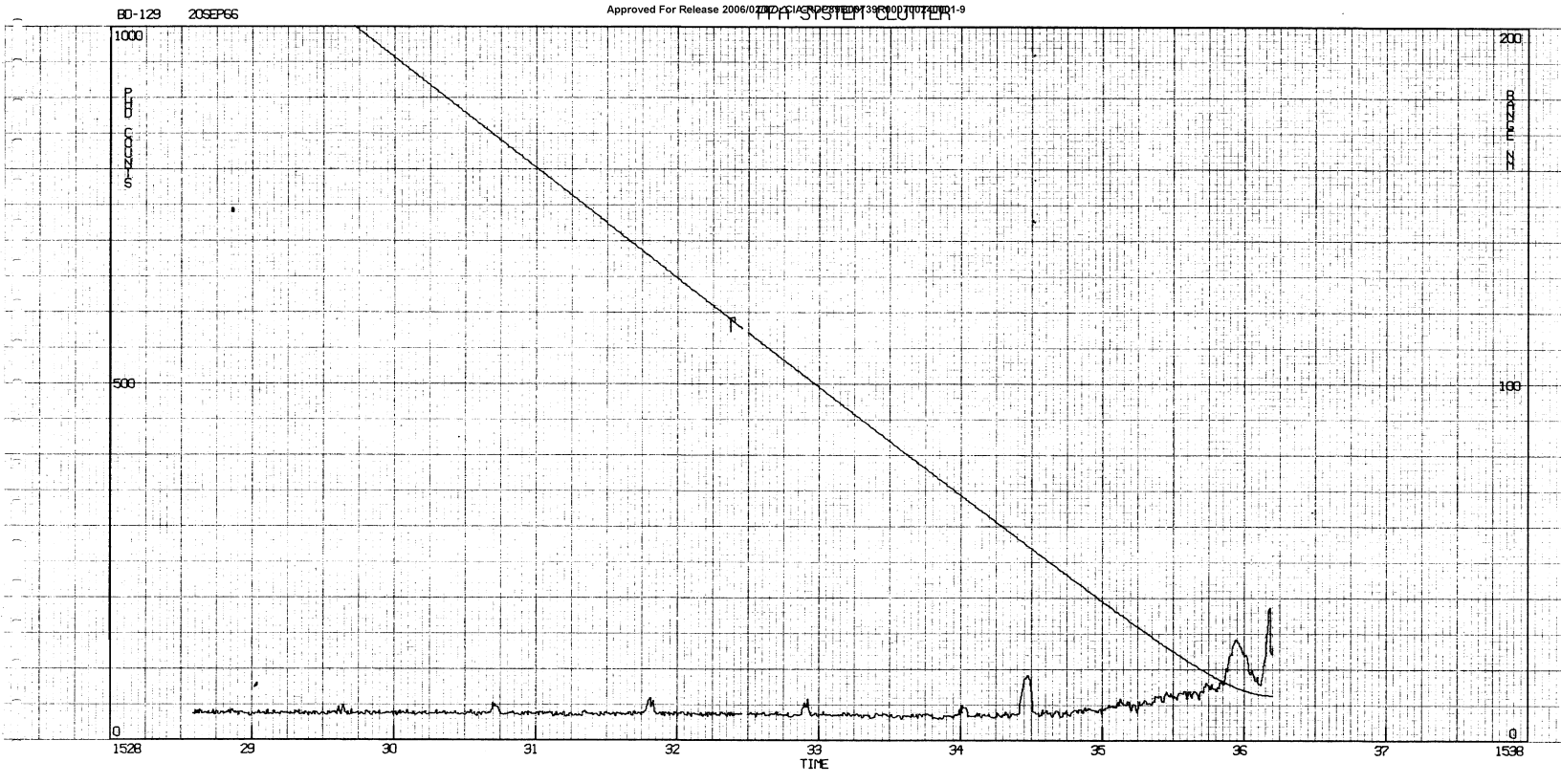

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2 X1 Approved For Release 2006/02/07 : CIA-RDP89B00739R000700240001-9

TEST REPORT BD-130

Copy 1 of 4

Date of Test:	22 Sep 66
Data Run:	22 Sep 66
Report Issued:	22 Sep 66
Aircraft:	131
Flight:	88

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SUMMARY OF TESTS

Test No. BD-130

	NIKE	[redacted]	MOD III	NAVY	PPA
RANGE TRACK	✓				
AZIMUTH TRACK	✓				
ELEVATION TRACK	✓				
[redacted] - PHD		✓	✓		
[redacted]					
PHD				✓	

25X1

25X1

25X1

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INDEX

Test No. BD-130

- [✓] Operating Log
- [✓] Flight Plan (Azimuth Angle versus Ground Range)
- 25X1 [ ] [ ] versus Time Plot
- [✓] Azimuth and Elevation versus Time Plot
- [ ] Depression Angle and Look Angle versus Time Plot
- [ ] Roll Angle, Pitch Angle and Heading Angle versus Time Plot
- 25X1 [✓] [ ] PHD and Range versus Time Plot for the [ ] System (S-Band) 25X1
- 25X1 [✓] [ ] PHD and Range versus Time Plot for the MOD III System (C-Band)
- [✓] PHD and Range versus Time Plot for the Navy System
- [ ] PHD and Range versus Time Plot for the PPA System
- [✓] PHD Clutter and Range versus Time Plot for the Navy System
- [ ] PHD Clutter and Range versus Time Plot for the PPA System
- [ ] PHD and Range versus Time Plot for the MOD III System
- [ ] PHD and Range versus Time Plot for the [ ] System 25X1

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25X1

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To:

Thru:

From:

Date: 9-22-66

Test Number: [illegible]

Subject: TEST ACTIVITIES THIS DATE

This memo contains 7 pages.

Other enclosures: 1 COPY PRE-FLIGHT CHECK CHART.

Special notations:

Test Resume: NIKE IN AUTO AT 237 MI.
C4S BANDEWS RETURNS AT 27 MI.

Distribution:

Section "F" Log	(1)
SPOD Files	(1)
Other- Data Analysis	(1)
	( )
	( )
	( )
	( )
	( )

25X1

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VEHICLE TEST [redacted]

DATE: 9/22/[redacted]

EXTERNAL CAL. ( )

T.D. [redacted]

B. G. & G. TEST #: BD-130

A.T.D [redacted]

DATA TAPE #:(AMP) BD-130-2

DATA TAPE #:(DATA) BD-130-1,-2

L.A.C. FLIGHT #: 88

AUDIO TAPE #: BD-130-A,

L.A.C. TEST #: _____

25X1

I. SEQUENCE OF TEST:

A. FLY VEHICLE # 131 TO OBTAIN EWS data with [redacted] systems. A.R data with the Navy system.

II. VEHICLE INFORMATION:

A. ALTITUDE: 80,000'

B. SPEED: 3.1

C. I.N.S. (✓) OR MA-1 ( )

D. FLIGHT PLAN: Fly a [redacted], coming in from a bearing of 094° true, approximately 1 hr + 33 minutes after takeoff

III. EXTERNAL CALIBRATION:

A. C-47: ( )

B. Helicopter: ( )

C. MISC: ( )

SYSTEMS:

[redacted] (✓)

NAVY: (✓)

OTHER: ( )

MOD III: (✓)

[redacted]:

PAGE (1) OF (7) PAGES

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DATE: 9/22/66

TEST #: BD 130

IV. DRY RUN INFORMATION:

A. NIKE PLUNGE CHECK:

NORMAL: 4148.8

PLUNGED: 0948.85

ERROR: 0.05 MILLS

B. BENCH MARK CHECKS: (Nike, DSK, & Mod III)

DIFFERENTALS "OFF", DSK SLAVED: NIKE/EYE: AZ: 0 EL: 0

DSK ANT: AZ: 0 EL: 0

DIFFERENTALS "ON", DSK SLAVED: NIKE/EYE: AZ: _____ EL: _____

DSK ANT: AZ: _____ EL: _____

MOD III SLAVED: NIKE EYE: AZ: ± 01 EL: 1 da

C. TELEMETRY REFERENCE READINGS:

ROLL OCTAL: _____ INCLINOMETER #1 : _____

PITCH OCTAL: _____ " " #2 : _____

HEADING OCTAL: _____ " " #3 : _____

MISC. OCTAL: _____ " " MISC.: _____

TIME RECORDED:

DATA TAPES ON: _____ DATA TAPES OFF: _____

D. PRE-TEST ABNORMALITIES NOTED:

_____

_____

_____

_____

_____

_____

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DATE: 9/2/66

TEST #: [redacted]

V. OPERATIONAL SYSTEMS STATISTICS:

25X1

A. [ ] SYSTEM TIME NOTED: 12:58:00

POWER OUT: _____ KW

FREQUENCY: 2.81 - 3.16 KMC Rec. Only

RECIEVER SENSITIVITY, MINUS [redacted] DBM

B. NAVY SYSTEM TIME NOTED: 12:58:00

POWER OUT: 250 KW

FREQUENCY: 12.2 MC

RECIEVER SENSITIVITY, MINUS -115 DBM

C. MOD III SYSTEM TIME NOTED: 12:58:00

POWER OUT: _____ KW

FREQUENCY: 4.85-5.15 KMC

RECIEVER SENSITIVITY, MINUS -92 DBM Rec. Only

D. PPA SYSTEM TIME NOTED: [redacted]

POWER OUT: _____ KW

FREQUENCY: _____ MC

RECIEVER SENSITIVITY, MINUS _____ DBM

E. OTHER SYSTEMS

NIKE SYSTEM	(Y)
RANGER SYSTEM	(Y)
TAPE CENTER	(Y)
TELEMETRY	( )
MONOPULSE	( )
Q WAY SYSTEM	( )
BULL GEAR SLAVED	(Y)

MISC. _____

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DATA CONTROLS
SYSTEMS STATUS

DATE: 9-27-66

TEST # BD 130

OPERATION/DATA

I. TAPE CENTER:

Ampex Recorder #I	Normal (✓)	Abnormal ( )
Ampex Recorder #II	Normal (✓)	Abnormal ( )

Remarks: _____

Datamec Recorder #I	Normal (✓)	Abnormal ( )
Datamec Recorder #II	Normal (✓)	Abnormal ( )

Remarks: _____

II. R. F. SYSTEMS:

25X1

[redacted]	Normal (✓)	Abnormal ( )
Navy	Normal (✓)	Abnormal ( )
MOD III CW	Normal (✓)	Abnormal ( )
PPA	Normal ( )	Abnormal ( )
Other: _____	Normal ( )	Abnormal ( )

Remarks: _____

III. DIGITAL:

BG ~~CSW~~ Encoders	EL/AZ	Normal (✓)	Abnormal ( )
Nike Encoders	EL/AZ	Normal (✓)	Abnormal ( )
Telemetry (Ground)		Normal ( )	Abnormal ( )
Telemetry (Q-Bay)		Normal (✓)	Abnormal ( )
Ranger		Normal (✓)	Abnormal ( )

Remarks: _____

IV. MISC. REMARKS AND INFORMATION:

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DATE 9/23/66

TEST # 22 LCO

TEST INFORMATION

11:13:00 Red check - C.K.

11:16:00 Tanker Beacon check - pulse spacing 100 us.

11:18:51 Audio Tapes on - Tape annotation

11:19:50 Audio Tapes off

11:24:07 Article Airborne

11:25:14 Nike Auto track - 6 miles 11:29:30 Broke lock 40 miles +

12:46:18 Vehicle Airborne - acquired [redacted]

12:46:18 Nike in Auto Track 235 miles

12:46:21 T/M Tuned & Synced Data Tape On DSK slaved

12:47:26 C&S-band returns 200 miles

12 48:11 C&S off

12 48:46 C&S band returns

[redacted] C&S off

12 50:03 QK down

12 50:16 C&S off 116 miles

12 50:54 Range 100 miles

12 52:37 Range 50 miles

12 53:28 C&S 22 miles

12 54:16 CPA 14 miles

12 54:20 S off during DSK slew

12 54:32 S ON

12 55:34 C&S off 40 miles

12 56:20 Data Tapes Off

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ALL RANGES IN NAUTICAL MILES ( ) STATUTE MILES ( )

CAL. [illegible]

TEST # 8 0 126

25X1

13:25:25	# 1 RF Calibration		RANGE: 110 MILES.
13:27:20	Calib. Normal;		Navy (✓) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
13:27:45	# 2 RF Calibration		RANGE: 50 MILES.
13:29:58	Calib. Normal;		Navy ( ) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
13:30:25	# 3 RF Calibration		RANGE: 30 MILES.
13:32:30	Calib. Normal;		Navy (✓) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
13:32:57	# 4 RF Calibration		RANGE: 13 MILES.
13:33:50	Calib. Normal;		Navy ( ) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy (✓) PPA ( ) Mod III ( )
13:37:05	# 5 RF Calibration		RANGE: 13 MILES.
13:39:12	Calib. Normal;		Navy (✓) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
	# RF Calibration		RANGE: MILES.
	Calib. Normal;		Navy ( ) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;		Navy ( ) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;		Navy ( ) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;		Navy ( ) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )
	# RF Calibrations		RANGE: MILES.
	Calib. Normal;		Navy ( ) PPA ( ) Mod III ( )
	Calib. Abnormal;		Navy ( ) PPA ( ) Mod III ( )

NOTE:

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PREFLIGHT CHECK LIST

Date 4 Feb 67

MISSION DATA

VEHICLE			COMMUNICATIONS/IFF			ROUTE								
A/C Number	Flight Number	Call Sign	Channel	Mode	Code	Name	Purpose	To Time	D.T.G.	Look Angle	Time	Alt.	Speed	ARCT
131	88	D-22	2E6	XE3	44		EWS / I5	1130	200	094	TOT 1HR T32 AR 1HR +09	80K	3.2	

25X1

Special Operations Of Pilot Will CALL ON CH-6 — 200 NM DTG — RELEASE TO CENTER

PAPER ON B²

JUNK: 220-300 #'s low — No cover Times

SYSTEM DATA

CONFIGURATION											COMPUTER PRINTOUT	
[illegible] Xmit	[illegible] Rec	Navy Xmit	Navy Rec	400 UHF Xmit	400 UHF Rec	PPA Xmit	PPA Rec	T/M	NIKE Beac	NIKE Skin	Normal	Special
	✓	✓	✓		✓	No	No	NA	✓		✓	

AUXILIARY EQUIPMENT:

Quick Kill YES

Live Dog YES

E.R. NA

Others NONE

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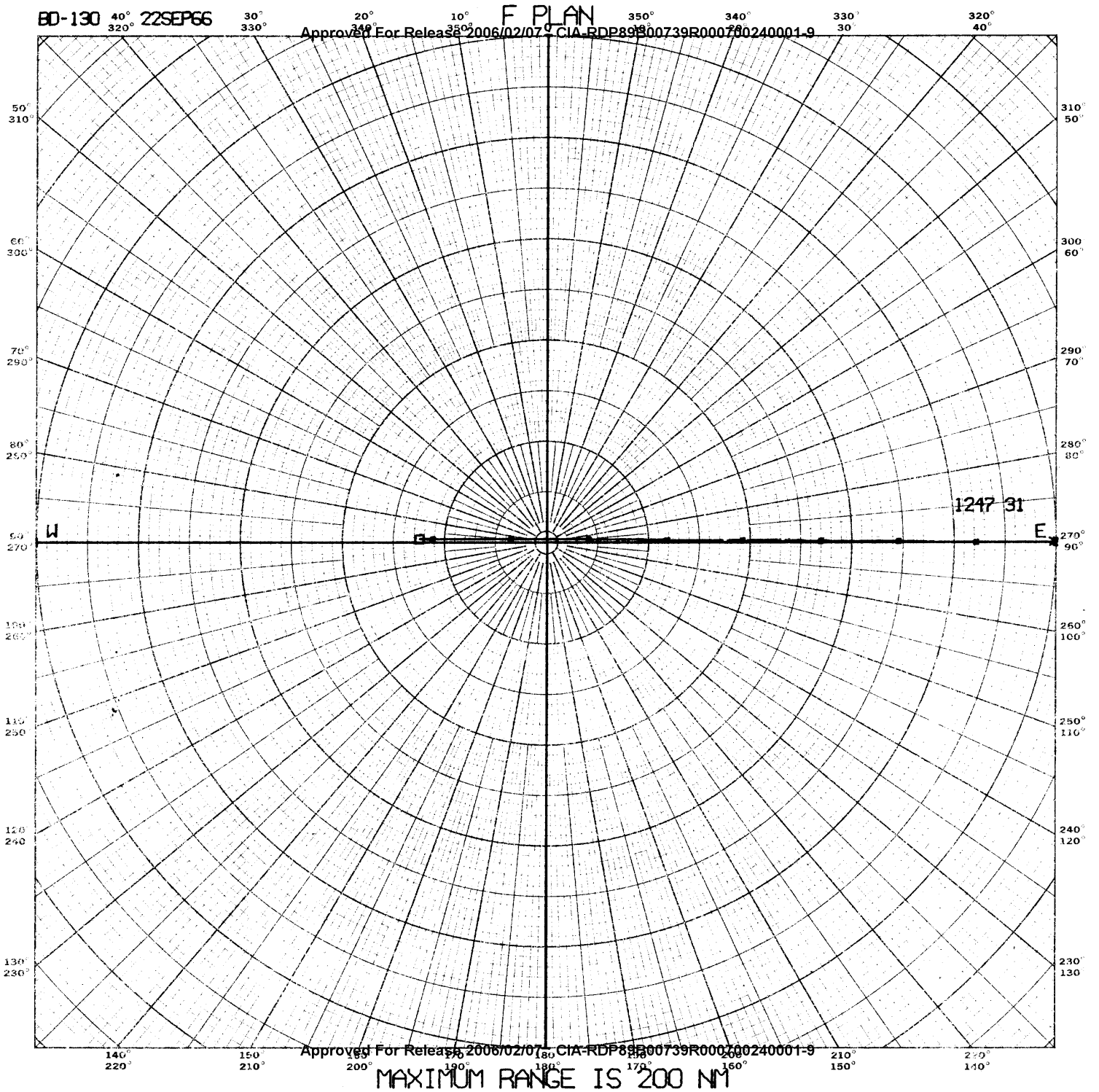

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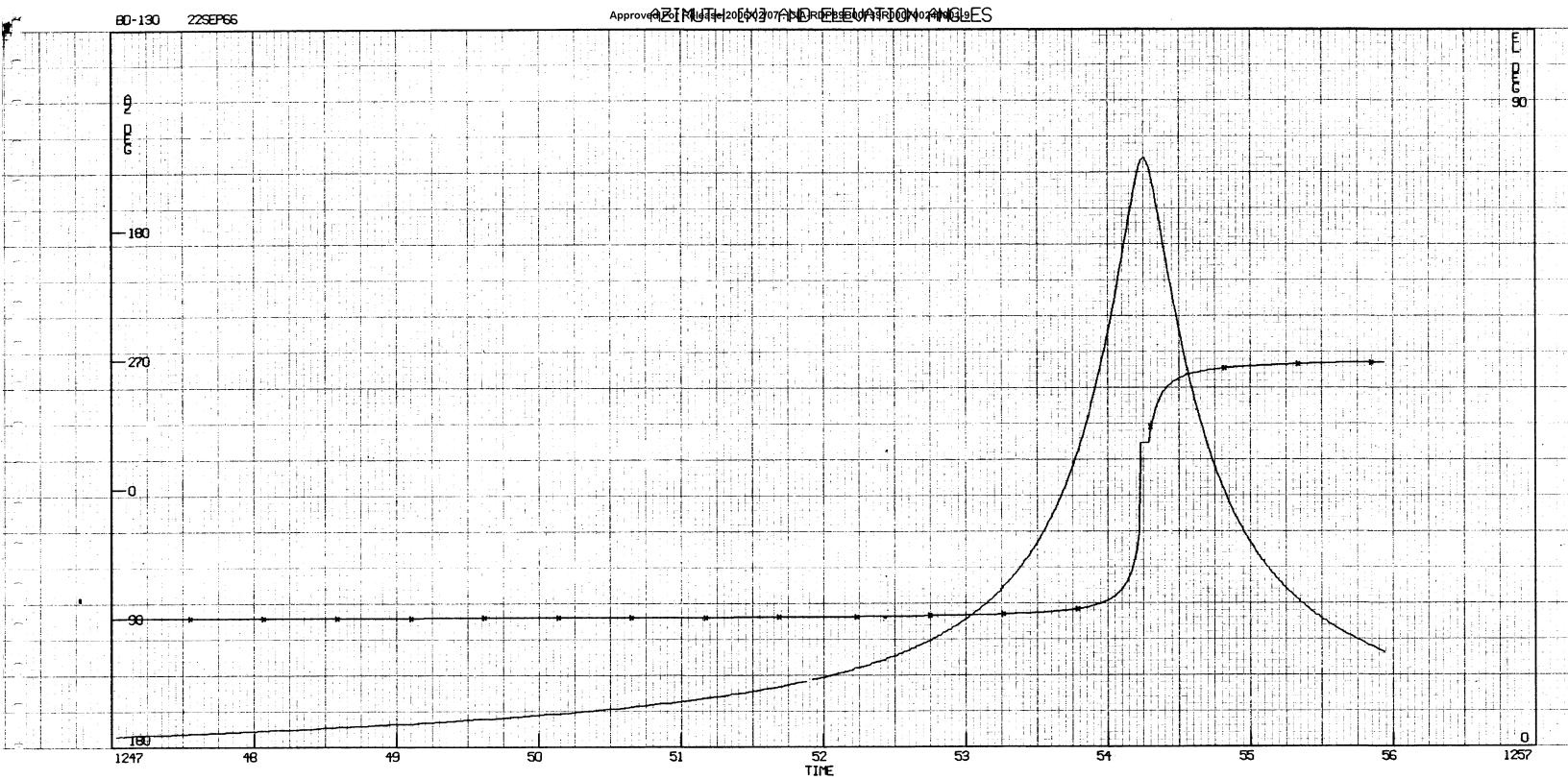

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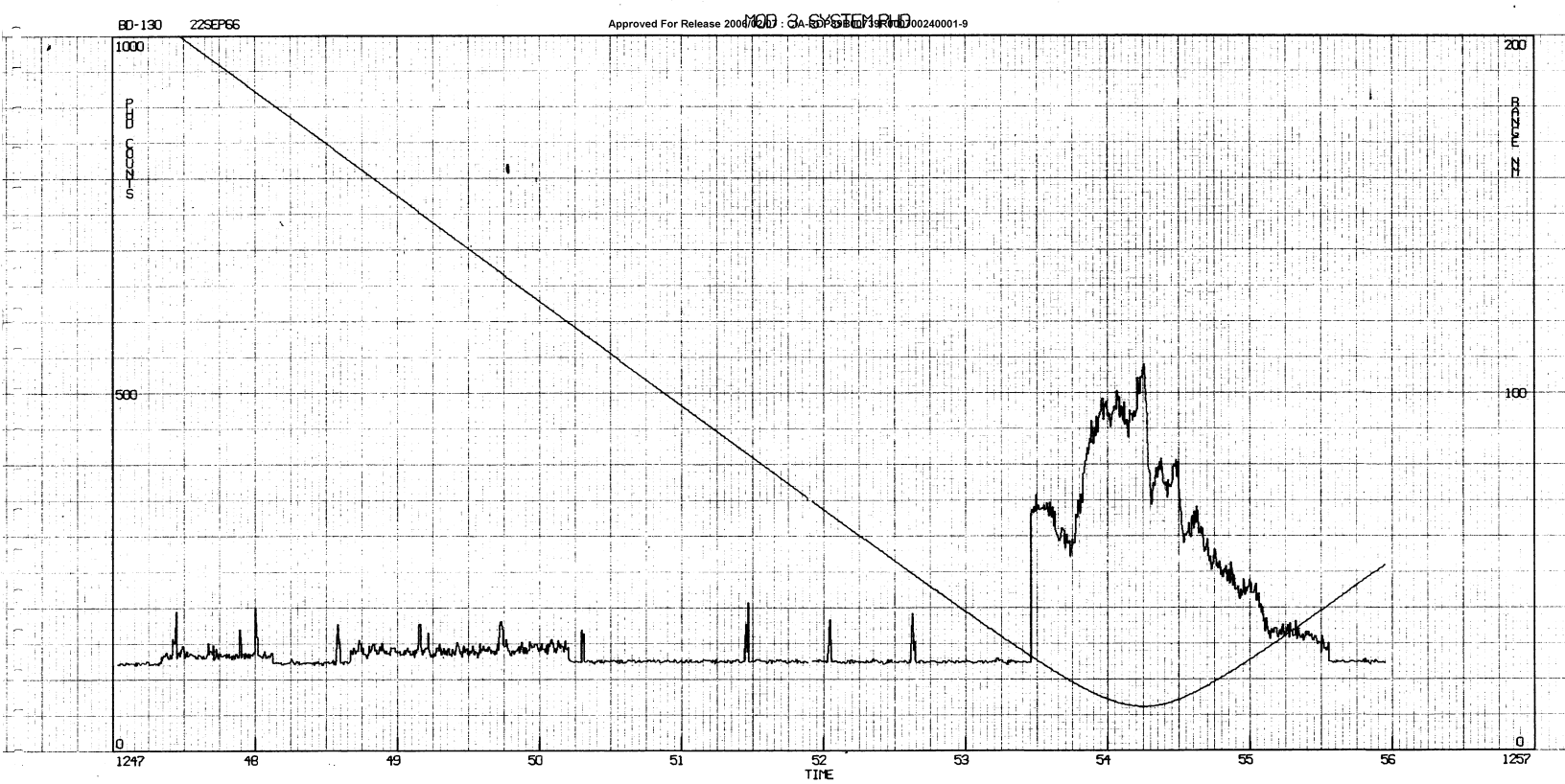

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25X1

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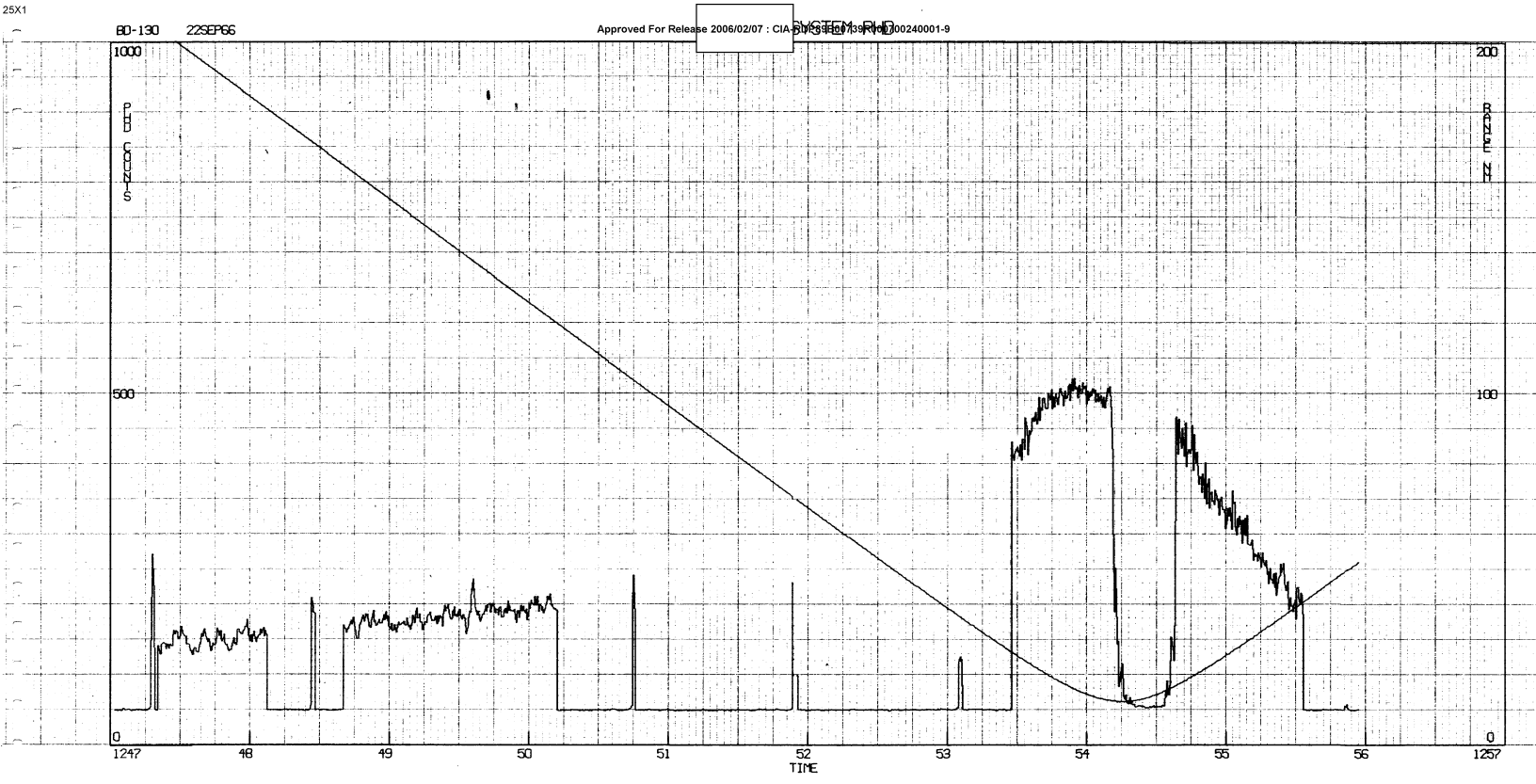

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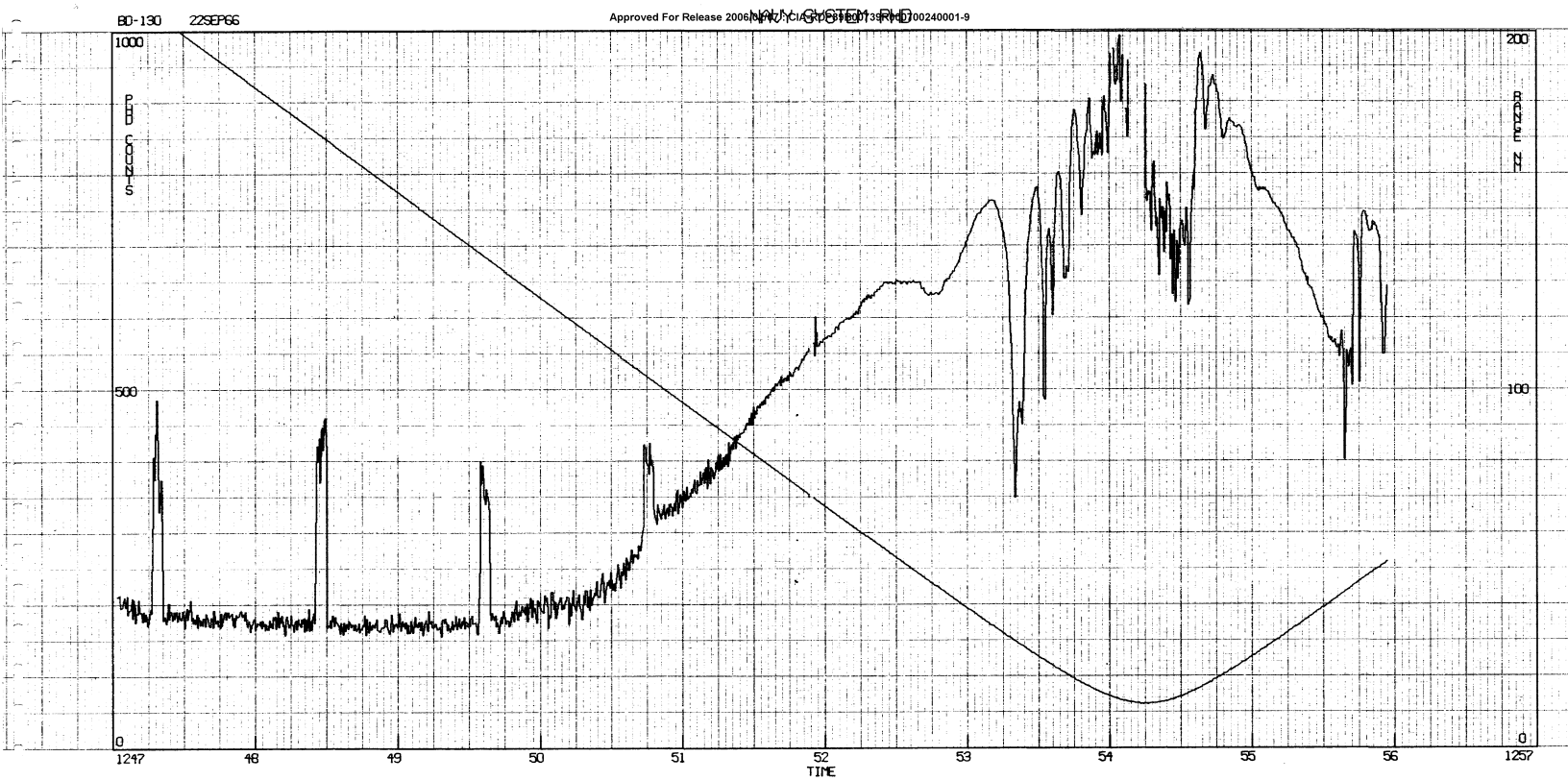

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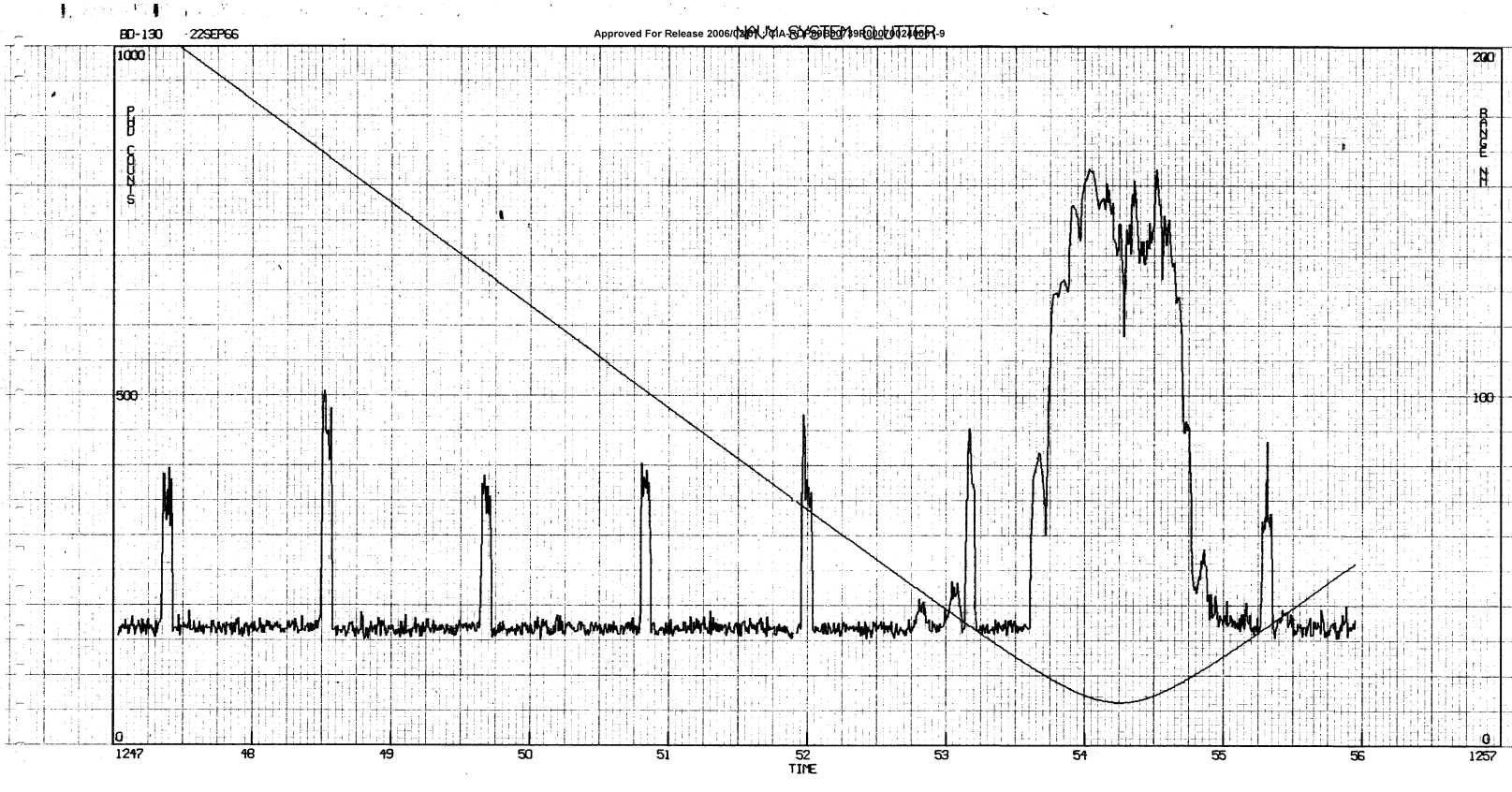

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